NACOmatic

Effective: 17-December-2009 Expires: 14-January-2010

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Use "Menu", then "Goto Page"

17 DEC 2009 to 14 JAN 2010

ALTERNATE MINS



RNAV (GPS) Rwy 31¹ VOR Rwy 31²

¹NA when local weather not available. ²Category A,B, 900-2; Category C, 900-2¹/₄.

INSTRUMENT APPROACH PROCEDURE CHARTS



IFR ALTERNATE AIRPORT MINIMUMS

Standard alternate minimums for non precision approaches are 800-2 (NDB, VOR, LOC, TACAN, LDA, VORTAC, VOR/DME, ASR or WAAS LNAV); for precision approaches 600-2 (ILS or PAR). Airports within this geographical area that require alternate minimums other than standard or alternate minimums with restrictions are listed below. NA - means alternate minimums are not authorized due to unmonitored facility or absence of weather reporting service. Civil pilots see FAR 91. IFR Alternate Airport Minimums: Ceiling and Visibility Minimums not applicable to USA/USN/USAF. Pilots must review the IFR Alternate Airport Minimums Notes for alternate airfield suitability.

NAME	ALTERNATE MINIMUMS	NAME ALTERNATE MINIMUMS	
ABERDEEN, SD		BISMARCK, ND	
ABERDEEN RGNL .	RNAV (GPS) Rwy 13	BISMARCK MUNI ILS Rwy 131	
	RNAV (GPS) Rwy 31	ILS Rwy 31 ¹	
	RNAV (GPS) Rwy 35	RADAR-1	3
	VOR Rwy 31 VOR/DME Rwy 13	¹ ILS, Category D, 800-2½; Category E, 900-3. LOC, NA.	
NA when local weat		² NA when control tower not in operation.	
		³ NA when control tower closed.	
ALBERT LEA, MN			
	RNAV (GPS) Rwy 16		
NA when local weat	her not available.	BRAINERD LAKES RGNL ILS or LOC Rwy 23 RNAV (GPS) Rwy 12	
ALEXANDRIA, MN		RNAV (GPS) RWy 12 RNAV (GPS) Rwy 23	
	RNAV (GPS) Rwy 31	RNAV (GPS) Rwy 30	
NA when local weat	her not available.	RNAV (GPS) Rwy 34	
ALIOTINI MANI		NA when local weather not available.	
AUSTIN, MN		PROOKINGS SD	
AUSTIN MUNI	RNAV (GPS) Rwy 35	BROOKINGS, SD BROOKINGS RGNLRNAV (GPS) Rwy 12	,
	VOR/DME-A	RNAV (GPS) Rwy 30	
NA when local weath	ner not available.	NA when local weather not available.	
BAUDETTE, MN		CANBY, MN	
BAUDETTE INTL	RNAV (GPS) Rwy 301	MYERS FIELD RNAV (GPS) Rwy 12	2
	VOR/DME Rwy 12 ²	RNAV (GPS) Rwy 30)
4814	VOR Rwy 30 ²	NA when local weather not available.	
¹ NA when local wear	ther not available. ¼; Category D, 800-2½.	CLOQUET, MN	
Category C, 000-2	74, Category D, 000-272.	CLOQUET CARLTON	
BEMIDJI, MN		COUNTY RNAV (GPS) Rwy 35	5
BEMIDJI RGNL	RNAV (GPS) Rwy 13	NA when local weather not available.	
	RNAV (GPS) Rwy 31		
NA when local weat	her not available.	COOK, MN COOK MUNI RNAV (GPS) Rwy 31	
BENSON, MN		NA when local weather not available.	1
	RNAV (GPS) Rwy 14	TWY WHICH IOCAL WEALTEL HOL AVAILABLE.	
		CROOKSTON, MN	
NA when local weat	her not available.	CROOKSTON MUNI-	
		KIRKWOOD FIELD RNAV (GPS) Rwy 13	1



09351



ALTERNATE MINS

ALTERNATE MINIMUMS NAME **DETROIT LAKES. MN DETROIT LAKES-**WETHING FIELD RNAV (GPS) Rwy 13 RNAV (GPS) Rwv 31 NA when local weather not available. Category D, 800-21/4.

DEVILS LAKE, ND

DEVILS LAKE RGNL RNAV (GPS) Rwy 3 RNAV (GPS) Rwy 13 RNAV (GPS) Rwy 31 VOR Rwy 31

VOR Rwv 21² NA when local weather not available.

¹Categories A,B, 900-2; Category C, 900-21/2; Category D, 900-23/4.

²Category C, 800-21/4, Category D, 800-21/2.

DICKINSON, ND

DICKINSON-THEODORE ROOSEVELT RGNL RNAV (GPS) Rwy 14 RNAV (GPS) Rwy 32 VOR-A

NA when local weather not available

DODGE CENTER, MN

DODGE CENTER RNAV (GPS) Rwy 16 RNAV (GPS) Rwv 34 VOR-A

NA when local weather not available.

DULUTH. MN

DULUTH INTL COPTER ILS Rwy 9 **COPTER ILS Rwv 27** ILS Rwy 9

LOC, NA.

EVELETH, MN

EVELETH-VIRGINIA MUNI VOR/DME or GPS-A Category C, 800-21/4; Category D,800-21/2.

FAIRMONT, MN

FAIRMONT MUNI RNAV (GPS) Rwy 13 RNAV (GPS) Rwy 31 VOR Rwy 13 VOR Rwy 31

NA when local weather not available.

NAME ALTERNATE MINIMUMS FARGO.ND

HECTOR INTLILS or LOC Rwy 181 ILS or LOC Rwv 361 RNAV (GPS) Rwy 182

RNAV (GPS) Rwy 362 VOR/DME or TACAN Rwy 182 VOR or TACAN Rwv 363

¹ILS. Category E. 700-2¼. LOC. Category E. 800-21/4.

²Category E, 800-21/4.

3Category D, 800-21/4, Category E, 800-21/2.

FERGUS FALLS, MN

FERGUS FALLS MUNI-EINAR MICKELSON FIELD ILS or LOC Rwy 311 NDB Rwy 31² RNAV (GPS) Rwv 312 RNAV (GPS) Rwv 35

NA when local weather not available. ¹ILS, Category D, 700-21/4. LOC, Category D,

800-21/4.

²Category D, 800-21/4.

GLENCOE, MN

GLENCOE MUNI RNAV (GPS) Rwy 31 NA when local weather not available.

GRAND FORKS, ND

GRAND FORKS INTL ... ILS or LOC Rwy 35L12 LOC BC Rwy 17R1 RNAV (GPS) Rwy 9L3 RNAV (GPS) Rwy 17R3 RNAV (GPS) Rwy 27R3 RNAV (GPS) Rwy 35L3

¹NA when control tower closed.

2ILS, Category E. 700-21/2, LOC, Category E. 800-21/2.

3NA when local weather not available.

GRAND MARAIS. MN

GRAND MARAIS/

COOK COUNTY RNAV (GPS) Rwy 27

NA when local weather not available.

GRAND RAPIDS, MN

GRAND RAPIDS/ITASCA CO-

GORDON NEWSTROM RNAV (GPS) Rwy 16 RNAV (GPS) Rwy 34

VOR Rwy 34

VOR Rwy 17R3

VOR Rwy 35L3

NA when local weather not available

NAME

MARSHALL, MN

MINNEAPOLIS. MN

ALTERNATE MINS



ALTERNATE MINIMUMS

VOR Rwv 12

RNAV (GPS) Rwy 9 RNAV (GPS) Rwy 18

RNAV (GPS) Rwy 27

RNAV (GPS) Rwy 10L2

RNAV (GPS) Rwy 28R²

VOR Rwy 363

VOR Rwv 9 VOR/DME Rwv 27

SOUTHWEST MINNESOTA RGNL MARSHALL/

RYAN FLD RNAV (GPS) Rwy 12

(JANES FIELD) ILS or LOC/DME Rwv 27

NA when local weather not available.

ANOKA COUNTY-BLAINE ARPT

09351 NAME ALTERNATE MINIMUMS

HIBBING, MN CHISHOLM-

HIBBING ILS OR LOC/DME Rwy 131

VOR Rwy 13² ¹ILS,Categories A,B,C,D, 800-2.

²Categories A,B, 900-2; Category C, 900-21/2; Category D, 900-234; ILS, 700-2.

HURON.SD

17 DEC 2009 to 14 JAN 2010

HURON RGNL.....ILS or LOC Rwy 1212

ILS or LOC/DME Rwy 13,700-22

800-21/4.

INTERNATIONAL FALLS, MN

3Category D. 800-21/4.

available

JACKSON, MN

JAMESTOWN, ND

MANKATO, MN

3Category D, 800-21/4.

¹ILS, Category D, 700-21/4. LOC, Category D, ²NA when local weather not available.

FALLS INTL COPTER ILS or LOC Rwy 311

¹LOC, NA: ILS, NA when local weather not

JACKSON MUNI RNAV (GPS) Rwy 13

JAMESTOWN RGNL RNAV (GPS) Rwy 4

MANKATO RGNL RNAV (GPS) Rwv 4

²NA when local weather not available.

NA when local weather not available.

NA when local weather not available.

LOC/DME BC Rwy 3023 RNAV (GPS) Rwy 1223 RNAV (GPS) Rwv 3023

VOR Rwy 1223

ILS or LOC Rwv 312

RNAV (GPS) Rwy 132

RNAV (GPS) Rwy 312

RNAV (GPS) Rwy 31

RNAV (GPS) Rwy 13

RNAV (GPS) Rwy 22

RNAV (GPS) Rwy 31

RNAV (GPS) Rwy 15

RNAV (GPS) Rwy 22

RNAV (GPS) Rwy 33 VOR Rwy 15

NDB Rwy 13

VOR Rwy 31

VOR Rwv 33

VOR/DME Rwy 312

VOR Rwy 13²³

NA when local weather not available.

CRYSTAL RNAV (GPS) Rwy 14L NA when local weather not available.

FLYING

CLOUD COPTER ILS or LOC Rwy 10R1

¹NA when control tower closed.

²NA when local weather not available.

3Category C, 800-21/4; Category D, 800-21/2. MINNEAPOLIS-ST. PAUL INTL/

WOLD CHAMBERLAINILS Rwy 41

LOC, Category E, 900-3.

¹NA when tower closed.

ILS or LOC Rwy 12L1 ILS or LOC Rwy 12R1 ILS or LOC Rwy 30L1 ILS or LOC Rwv 30R1 ILS or LOC Rwy 352

¹ILS, Category D, 700-2; Category E, 900-3.

²ILS, Categories A, B, C, D, 700-2; Category

LOC Rwy 43 LOC Rwy 223 RNAV (GPS) Rwy 43 RNAV (GPS) Rwv 12L3 RNAV (GPS) Rwy 12R3 RNAV (GPS) Rwy 223

RNAV (GPS) Rwy 30L3

RNAV (GPS) Rwy 30R3

RNAV (GPS) Z Rwv 354

LOC/DME BC Rwy 131 RNAV (GPS) Rwy 13

RNAV (GPS) Rwy 31

E, 900-3. LOC, Category E, 900-3. 3Category E, 900-3. 4Category D, 800-21/4. MINOT, ND

MINOT INTLILS or LOC Rwy 3112

NA when local weather not available.

MAPLE LAKE, MN MAPLE LAKE MUNI VOR-A NA when local weather not available.

NA when local weather not available



ALTERNATE MINS	E4
NAME ALTERNATE MINIMUMS MITCHELL, SD MITCHELL MUNI	NAME ALTERNATE MINIMUMS ROCHESTER, MN ROCHESTER INTL ILS or LOC Rwy 13 ILS or LOC Rwy 31 COPTER ILS or LOC Rwy 31
VOR Rwy 30¹ NA when local weather not available.	NA when control tower closed.
¹ Categories A,B, 1000-2; Categories C,D, 1000-3.	ROSEAU, MN ROSEAU MUNI/ RUDY BILLBERG FIELD RNAV (GPS) Rwy 16
MOBRIDGE, SD MOBRIDGE MUNI RNAV (GPS) Rwy 121	RNAV (GPS) Rwy 34 NA when local weather not available.
RNAV (GPS) Rwy 30 ² NA when local weather not available ¹ Category D, 900-2¾. ² Category C, 800-2¼; Category D, 900-2¾.	ST. CLOUD, MN ST. CLOUD RGNL ILS or LOC/DME Rwy 13 ¹²³ RNAV (GPS) Rwy 5 ¹ RNAV (GPS) Rwy 13 ¹
MORRIS, MN MORRIS MUNI-CHARLIE SCHMIDT FLDRNAV (GPS) Rwy 14 RNAV (GPS) Rwy 32	RNAV (GPS) Rwy 231 RNAV (GPS) Rwy 311 VOR/DME Rwy 1312 VOR Rwy 3112
NA when local weather not available. PINE RIDGE, SD	¹ NA when local weather not available. ² NA when control tower closed. ³ ILS,Categories, A, B, C, D, 700-2.
PINE RIDGE	ST. PAUL, MN ST. PAUL DOWNTOWN HOLMAN FIELD
PIPESTONE, MN PIPESTONE MUNI	ILS or LOC Rwy 14 ¹² ILS or LOC Rwy 32 ¹² RNAV (GPS) Rwy 14 ² RNAV (GPS) Rwy 32 ³
NA when local weather not available. PRESTON, MN	NA when control tower closed. ² Categories A,B, 900-2; Category C,900-2½; Category D, 900-2¾.
FILLMORE COUNTY RNAV (GPS) Rwy 29 NA when local weather not available.	³ Categories A,B,C, 900-2½; Category D, 900-2¾.
	010111/ 0111 0 00

RAPID CITY, SD

RAPID CITY RGNLILS or LOC Rwy 321 RNAV (GPS) Rwy 142 RNAV (GPS) Rwy 32 VOR or TACAN Rwy 142 VOR or TACAN Rwy 322

NA when local weather not available.

¹ILS, Category D, 700-2; Category E, 700-21/4. LOC, Category E, 800-21/4.

²Category E, 800-21/4.

REDWOOD FALLS, MN

REDWOOD FALLS	
MUNI	RNAV (GPS) Rwy 30
	VOR-A

Category D, 800-21/4.

NA when local weather not available.

SIOUX FALLS, SD

JOE FOSS FIELD ILS Rwy 312 ILS Rwy 211 RADAR-13 VOR or TACAN Rwy 154 VOR/DME or TACAN Rwy 333

¹NA when control tower closed.

²LOC, NA.

3Category E, 800-23/4.

4Category E, 900-3.

SOUTH ST. PAUL, MN

SOUTH ST. PAUL MUNI-RICHARD E FLEMING FIELDRNAV (GPS) Rwy 34 Category D, 800-21/4.

NA when local weather not available.





1		
NAME	ALTERNATE MINIMUMS	NAME ALTERNATE MINIMUMS
THIEF RIVER	FALLS, MN	WILLMAR, MN
THIEF RIVER		WILLMAR MUNI-JOHN
FALLS RGNL	RNAV (GPS) Rwy 13	L RICE FIELD RNAV (GPS) Rwy 13
	RNAV (GPS) Rwy 31	RNAV (GPS) Rwy 31
	VOR Rwy 13	VOR Rwy 13
NA when loca	al weather not available.	VOR Rwy 31 ¹
		NA when local weather not available.
VERMILLION	I, SD	¹ Category D, 800-21/4.
HAROLD DAV		
FIELD	RNAV (GPS) Rwy 30	WINNER,SD
NA when loca	al weather not available.	WINNER RGNL RNAV (GPS) Rwy 13
WARROAR	MAL	RNAV (GPS) Rwy 31
WARROAD, I		VOR-A
WARROAD IN		NA when local weather not available.
MEMORIAL	RNAV (GPS) Rwy 13	WORTHINGTON MAI
	RNAV (GPS) Rwy 31	WORTHINGTON, MN
NA when loca	al weather not available.	WORTHINGTON
WASECA MI	N	MUNI VOR or GPS Rwy 11
WASECA, MI		Category D, 800-21/4.
	NI RNAV (GPS) Rwy 15 al weather not available.	YANKTON.SD
NA when loca	ai weather not available.	- , -
WATERTOW	N CD	CHAN GURNEY MUNI RNAV (GPS) Rwy 131
_	, -	VOR Rwy 131
WATERTOWN	RGNL LOC/DME BC Rwy 17	VOR Rwy 31 ² ¹ NA when local weather not available.
	NDB Rwy 35 RNAV (GPS) Rwy 12	
	RNAV (GPS) RWy 12 RNAV (GPS) Rwy 17	² Category D, 800-2¼.
	RNAV (GPS) RWy 17 RNAV (GPS) Rwy 30	
	RNAV (GPS) RWy 30 RNAV (GPS) Rwy 35	
	KNAV (GPS) KWy 33	

WILLISTON, ND

SLOULIN FIELD INTL.....VOR or GPS Rwy 11 Category D, 800-21/4.

NA when local weather not available.

VOR or TACAN Rwy 17

RADAR INSTRUMENT APPROACH MINIMUMS

BISMA	RCK, ND			Amdt. 3A, Γ	DEC 13,	, 2002 (FAA)			ELE\	/ 1661
BISMAI	RCK MUNI									
RADAR -	126.3 298.9	$\nabla \Lambda$								
		. —			HAT/				HAT/	
				DA/	HATh	1/		DA/	HATh/	
	RWY GS/TCI	H/RPI	CAT	MDA-VIS	HAA	CEIL-VIS	CAT	MDA-VIS	HAA	CEIL-VIS
ASR	13		AB	2100 -1	445	(500-1)	С	2100 -11/4	445	(500-11/4)
			D	2100 -1½	445	(500-1½)				
	31		AB	2100 /24	455	(500-1/2)	С	2100 /40	455	(500-3/4)
			D	2100 /50	455	(500-1)				•
ii	21		AB	2120 -1	459	(500-1)	С	2120 -11/4	459	(500-11/4)
			D	2120 -1½	459	(500-1½)				•
	3		AB	2120 -1	459	(500-1)	С	2120 -11/4	459	(500-11/4)
			D	2120 -1½	459	(500-1½)				
CIRCLIN	G		Α	2180 -1	519	(600-1)	В	2220 -1	539	(600-1)
İ			С	2220 -1½	559	(600-1½)	D	2240 -2	579	(600-2)
h					_					

Amdt. 20, OCT 7, 1999 (FAA)

HAT/

RWY GS/TCH/RPI CAT MDA-VIS HAA CEIL-VIS CAT MDA-VIS HAA

400

439

439

440

HATh/

(400-1)

 $(400-1\frac{1}{2})$

 $(500-\frac{1}{2})$

(500-1)

(500-1)

Inoperative table does not apply to MALS Rwy 13.

DULUTH, MN

DULUTH INTL RADAR - 125.45 255.9

27

21

ASR

	DE	1860 -1½	440
9	AB	1880 /24	452
	DE	1880 /50	452
CIRCLING	AB	1920 -1	492
	DE	1000 0	EEO

1820-1½ 400

1860/24

1860/50

1860-1

DA/

ABC 1820-1

Е

AB

DE

AB

(500-1)(500-1)(600-2)552

 $(500-1\frac{1}{2})$ $(500-\frac{1}{2})$ С С

С

1880/40 **1920**-1½ 492

DA/

1820-11/4

1860/40

1860-1¼ 440 452 $(500-1\frac{1}{2})$

HAT/

400

439

HATh/

ELEV 1428

 $(400-1\frac{1}{4})$ $(500-\frac{3}{4})$ $(500-1\frac{1}{4})$ $(500-\frac{3}{4})$

CEIL-VIS

Category E circling NA southeast of Rwys 3 and 27.

RADAR INSTRUMENT APPROACH MINIMUMS

ELLSWORTH AFB (KRCA) (Rapid City), SD (Amdt 1, 08045 USAF)

ELEV 3276

ELEV 1942

HAT/

RADAR - (E) 119.5 259.11

ASR	<u>RWY</u> 13 ²	GS/TCH/RPI	CAT AB C	DH/ MDA-VIS 3820/40 3820/50	HATh/ HAA 544 544	CEIL-VIS (600-¾) (600-1)
			D E	3820 /60 3820 -1½	544 544	(600-1½) (600-1½)
	31 ²		AB C D E	3820/40 3820/60 3820-1½ 3820-1¾	628 628 628 628	(600-¾) (600-1¼) (600-1½) (600-1¾)
CIR	All Rwy³		A B C D E	3860-1¼ 3880-1¼ 3880-1¾ 3880-2 4040-2¾	584 604 604 604 764	(600-1¼) (700-1¼) (700-1¾) (700-2) (800-2¾)

¹Opr 1300-0730Z++ Mon-Thu, 1300-0500Z++ Fri. 1400-0500Z++ Sat, Sun and hol. ²When ALS inop, increase CAT AB RVR to 60 and vis to 1¼, increase CAT CDE vis ½ mile. ³CAT E circling restricted to 28th BW aircraft only; 28th BW aircraft will remain within class D airspace.

Amdt. 4. NOV 09. 1995 (FAA)

MINITE	-/14 IAI	OII									
RADAR -	126.3	298.9	▲ NA								
						HAT/				HAT/	
					DA/	HAT	n/		DA/	HAT/	
	RWY	GS/TC	H/RPI	CAT	MDA-VIS	HAA	CEIL-VIS	CAT	MDA-VIS	HAA	CEIL-VIS
ASR	31			AB	2360 -1	418	(500-1)	CD	2360-11/4	418	(500-11/4)
	13			AB	2460 -1	520	(600-1)	С	2460 -1½	520	(600-1½)
				D	2460 -13/4	520	$(600-1\frac{3}{4})$				
CIRCLIN	IG			Α	2460 -1	518	(600-1)	В	2500 -1	558	(600-1)
				С	2500 -1½	558	(600-11/2)	D	2500 -2	558	(600-2)

Use Bismarck altimeter setting.

MANDAN, ND

MANDAN MINI

When Bismarck control tower closed, ASR NA.

RADAR INSTRUMENT APPROACH MINIMUMS

ROCHESTER, MN ROCHESTER INTL RADAR - 119.8 251.125 \(\nabla\)

SIOUX FALLS, SD

Amdt. 8, JAN 15, 2009 (FAA)

ELEV 1317

ELEV 1429

HAT/

			DA/	HAT	1/		DA/	HAT	n/
	RWY	GS/TCH/RPICAT	MDA-VIS	HAA	CEIL-VIS	CAT	MDA-VIS	HAA	CEIL-VIS
ASR	2	ABC	1680 -1	363	(400-1)	D	1680 -1¼	363	$(400-1\frac{1}{4})$
	13	ABC	1640 /24	360	(400-1/2)	D	1640 /50	360	(400-1)
	20	ABC	1660 -1	356	(400-1)	D	1660 -1¼	356	(400-11/4)
	31	ABC	1660 /24	356	(400-1/2)	D	1660 /50	356	(400-1)
CIRCLIN	١G	A	1720 -1	403	(500-1)	В	1780 -1	463	(500-1)
		С	1780 -1½	463	(500-11/2)	D	1880 -2	563	(600-2)

HAT/

When control tower closed, procedure NA. For inoperative MALSR, increase S-13 and S-31 Cat D visibility to RVR 6000. Visibility reduction by helicopters NA Rwy 2-20.

JOE FOSS FIELD

RADAR - 125.8 353.6

→ A

HAT/
DA/
HATh/
DA/
HATh/
RWY GS/TCH/RPI CAT MDA-VIS HAA CEIL-VIS CAT MDA-VIS HAA CEIL-

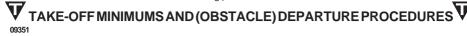
Amdt. 10A, OCT 3,2003 (FAA)

	DWV	GS/TCH/RPI	CAT		ПАІ		CAT		HAIII	
	IK VV Y	GS/TCH/RPI	CAI	MIDA-A12	пАА	CEIL-VIS	CAI	MIDA-A12	паа	CEIL-VIS
ASR	3			1940 /24 1940 /60		(600-½) (600-1¼)	С	1940 /50	517	(600-1)
	33					(500-1) (500-1½)				
	21					(600-½) (600-1½)				'
	15					(600-1) (600-1¾)		1960-1½ 1960-2	534 534	(600-1½) (600-2)
CIRCLIN	1G			1960 -1 2040 -2		(600-1) (700-2)		1960-1½ 2300-3	531 871	(600-1½) (900-3)

When control tower closed, procedure not authorized.

Category E S-3 visibility increased 1% mile for inoperative MALSR.

Category E S-21 visibility increased to 2 miles for inoperative MALSR.



INSTRUMENT APPROACH PROCEDURE CHARTS

FR TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

Civil Airports and Selected Military Airports

ALL USERS: Airports that have Departure Procedures (DPs) designed specifically to assist pilots in avoiding obstacles during the climb to the minimum enroute altitude, and/or airports that have civil IFR take-off minimums other than standard, are listed below. Take-off Minimums and Departure Procedures apply to all runways unless otherwise specified. Altitudes, unless otherwise indicated, are minimum altitudes in MSL.

DPs specifically designed for obstacle avoidance are referred to as Obstacle Departure Procedures (ODPs) and are described below in text, or published separately as a graphic procedure. If the (Obstacle) DP is published as a graphic procedure, its name will be listed below, and it can be found in either this volume (civil), or a separate Departure Procedure volume (military), as appropriate. Users will recognize graphic obstacle DPs by the term "(OBSTACLE)" included in the procedure title; e.g., TETON TWO (OBSTACLE). If not assigned a SID or radar vector by ATC, an ODP may be flown without ATC clearance to ensure obstacle clearance.

Graphic DPs designed by ATC to standardize traffic flows, ensure aircraft separation and enhance capacity are referred to as "Standard Instrument Departures (SIDs)". SIDs also provide obstacle clearance and are published under the appropriate airport section. ATC clearance must be received prior to flying a SID.

CIVIL USERS NOTE: Title 14 Code of Federal Regulations Part 91 prescribes standard take-off rules and establishes take-off minimums for certain operators as follows: (1) Aircraft having two engines or less - one statute mile. (2) Aircraft having more than two engines - one-half statute mile. These standard minima apply in the absence of any different minima listed below.

MILITARY USERS NOTE: Civil (nonstandard) take-off minima are published below. For military take-off minima, refer to appropriate service directives.

NAME

TAKE-OFF MINIMUMS

ABERDEEN.SD

ABERDEEN RGNL (ABR)

ORIG 09239 (FAA)

NOTE: Rwy17, trees 1138' from DER, 432' right of centerline, 41' AGL/1336' MSL. Rwy31, multiple trees beginning 1391' from DER, 326' left of centerline, up to 65' AGL/1360' MSL.

AITKIN. MN

AITKIN MUNI-STEVE KURTZ FIELD (AIT) AMDT 2 96172 (FAA)

TAKE-OFF MINIMUMŚ: Rwys 8, 26, 300-1. Rwy16, 300-1 or std. with a min climb of 400' per NM to 1500. DEPARTURE PROCEDURE: Rwys 16, 26, climb runway heading to 1700 before turning.

ALBERT LEA. MN

ALBERT LEA MUNI (AEL)

ORIG 85241 (FAA)

DEPARTURE PROCEDURE: Rwys 16, 22, climb runway heading to 1800 before turning on course.

ALEXANDRIA, MN

CHANDLER FIELD (AXN)

DEPARTURE PROCEDURE: **Rwys 4, 13, 22**, when weather is below 200-1, climb runway heading to 1800 before turning.

NAME

TAKE-OFF MINIMUMS

APPLETON, MN

APPLETON MUNI (AQP)

ORIG 94146 (FAA)

DEPARTURE PROCEDURE: Rwy 4, climb to 2000 before turning right. Rwy 31, climb to 2000 before turning left. Rwy 13, climb to 2400 before turning right. Rwy 22, climb to 2400 before turning left.

AUSTIN. MN

AUSTIN MUNI (AUM)

ORIG 08045 (FAA)

NOTE: Rwy 17, Multiple trees beginning 809' from departure end of runway, 663' right of centerline, up to 61' AGL/1285' MSL. Rwy 35, Tree 1380' from departure end of runway. 484' right tof centerline, 100' AGL/1314' MSL.

BAUDETTE.MN

BAUDETTE INTL (BDE)

ORIG 01193 (FAA)

DEPARTURE PROCEDURE: **Rwy 12**, climb runway heading to 1700 before turning northbound.



BELLE FOURCHE, SD

BELLE FOURCHE MUNI (FFC) AMDT 2 09015 (FAA)

TAKE-OFF MINIMUMS: Rwvs 18.36, NA Rwv 14, std. w/min. climb of 240' per NM to 9000 or 1400-3 for climb in visual conditions. Rwv 32. std. w/min. climb of 413' per NM to 3900

DEPARTURE PROCEDURE: Rwv 14, for climb in visual conditions: cross Belle Fourche Muniairport at or above 4400 MSL before proceeding on course. Rwv 32, climb heading 321° to 3900 before proceeding southbound. NOTE: Rwv 14. trees 651' from departure end of runway. 547' left of centerline, up to 20' AGL/3299' MSL. Rwv 32.

trees 857' from departure end of runway 150' left of centerline, up to 20' AGL/3199' MSL. Trees 3880' from departure end of runway, 966' right of centerline, up to 20' AGL /3289' MSL

BEMIDJI, MN

BEMIDJI RGNI (BJI)

AMDT 3 08213 (FAA)

NOTE: Rwv 7, vegetation beginning 859' from departure end of runway, 544' right of centerline, up to 62' AGL/ 1442' MSL. Vegetation beginning 1404' from departure end of runway, 683' left of centerline, up to 44' AGL/1424' MSL. Rwy 13, vehicle on road, 541' from departure end of runway, 525' right of centerline, 15' AGL/1398' MSL. Rwy 25, poles beginning 1337' from departure end of runway. 205' right of ceterline up to 61' AGL/1445' MSL. Trees beginning 1414' from departure end of runway. 254' left of centerline, up to 57' AGL/1441' MSL. Tree 1406' from departure end of runway, 233' right of centerline, 53' AGL/1437' MSL.

BENSON, MN

BENSON MUNI (BBB)

AMDT 1 09127 (FAA)

NOTE: Rwv 14, numerous trees beginning 838' from DER, 246' right of centerline, up to 33' AGL/1087' MSL. Numerous trees beginning 1232' from DER. 64' left of centerline. up to 69' AGL/1108' MSL, Sign 206' from DER, 198' left of centerline, 19' AGL/1044' MSL, Tower 4884' from DER, 274' right of centerline, 126' AGL/1161' MSL, Rwy 32, Tree 2380' from DER, 646' left of centerline, 68' AGL/1107' MSL, Multiple fences beginning 13' from DER, 361' left of centerline, up to 8' AGI /1043 MSI

BIGFORK.MN

BIGFORK MUNI (FOZ)

ORIG 97198 (FAA)

TAKE-OFF MINIMUMS: Rwv 15, 400-1 or std. with a min, climb of 250' per NM to 1800.

BISMARCK.ND

BISMARCK MUNI (BIS)

AMDT 7 01137 (FAA)

DEPARTURE PROCEDURE: Rwys 3,31, climb runway heading to 2500 before proceeding on course. Rwys 13, 21, climb runway heading to 3800 before proceeding south.

BOTTINEAU.ND

BOTTINEAU MUNI (D09) ORIG 98113 (FAA)

TAKE-OFF MINIMUMS: Rwv 13, 800-1 or std. with a min_climb of 280' per NM to 2500_Rwv 31, 900-2 or std with a min, climb of 360' per NM to 2900, Rwys 3, 21.

BRAINFRD MN

BRAINERD LAKES RGNL (BRD) AMDT 5 07074 (FAA)

NOTE: Rwv 12, multiple trees beginning 165' from departure end of runway, 417' left of centerline, up to 78' AGI /1279 MSI Multiple trees and vehicle on road beginning 304' from departure end of runway, 206' right of centerline, up to 66' AGL/1277' MSL, Rwv 16, multiple trees beginning 1830' from departure end of runway. 749' left of centerline, up to 74' AGL/1314' MSL, Rwy 23. multiple trees beginning 1495' from departure end of runway, 179' left of centerline, up to 48' AGL/1285' MSL Tree 2437' from departure end of runway, 716' right of centerline, 50' AGL/1279' MSL. Rwv 30, multiple trees beginning 243' from departure end of runway, 131'left of centerline, up to 61' AGL/1287' MSL. Multiple trees 48' from departure end of runway, 328' right of centerline, up to 59' AGL/1329' MSL

BRITTON.SD

BRITTON MUNI (BTN)

AMDT 2 96060 (FAA)

TAKE-OFF MINIMUMS: Rwv 13, 300-1 or std. with a min, climb of 450' per NM to 1600. Rwv 19, 300-1. DEPARTURE PROCEDURE: Rwy 19, climb runway heading to 2000 before turning.

BROOKINGS.SD

BROOKINGS RGNL (BKX)

ORIG 09015 (FAA)

NOTE: Rwy 12, pole and trees beginning 1041' from departure end of runway, 207' left of centerline, up to 65' AGL/1705' MSL, Building 1277' from departure end of runway, 825' right of centerline, 38' AGL/1618' MSL. Rwy 17, vehicle on road 799' from departure end of runway, on centerline, up to 15' AGL/1687' MSL. Trees beginning 906' from departure end of runway, 464' left of centerline, up to 100' AGL/1749' MSL, Rwy 30, railroad beginning 547' from departure end of runway, 502' right of centerline, 23' AGL/1626' MSL, Tree 132' from departure end of runway, 433' left of centerline, 20' AGL/ 1615' MSL. Rwy 35, trees 2892' from departure end of runway, 944' right of centerline, up to 100' AGL/1709' MSL.

CANBY, MN

MYERS FIELD (CNB)

ORIG 07186 (FAA)

NOTE: Rwy 12. truck on road 183' from departure end of runway, 220' right of centerline, 15' AGL/1204' MSL.

CASSELTON, ND

CASSELTON ROBERT MILLER RGNL (5N8) ORIG 07354 (FAA)

TAKE-OFF MINIMUMS: Rwv 31, 400-21/2 or std. w/a min, climb of 212' per NM to 1400 or alternatively, with standard takeoff minimums and a normal 2001/NM climb gradient, takeoff must occur no later than 1700' prior to departure end of runway.

NOTE: Rwv 13, railroad 30' from departure end of runway, 505' right of centerline, 23' AGL/945' MSL. Vehicle on road 449' from departure end of runway, 300' left of centerline, 15' AGL/949' MSL, Rwv 31, trees 2251' from departure end of runway, 456' left of centerline, up to 100' AGL/1052' MSL.

CAVALIER. ND

CAVALIER MUNI (2C8)

ORIG 03191 (FAA)

TAKE-OFF MINIMUMS: Rwv 16, 300-1 or std. with a min. climb of 430' per NM to 1200.

NOTE: Rwv 16, grain elevator 3731 from departure end of runway 284' left of centerline 168' AGL/1060' MSL

CLOQUET, MN

CLOQUET CARLTON COUNTY (COQ)

AMDT 1 80248 (FAA)

TAKE-OFF MINIMUMS: Rwy7, 300-1 or std. with a min. climb of 400' per NM to 1400.

CROOKSTON, MN

CROOKSTON MUNI-KIRKWOOD FIELD (CKN) AMDT 2 07298 (FAA)

TAKE-OFF MINIMUMS: Rwvs 6, 17, 24, 35, NA-turf

NOTE: Rwy 13, tree 1998' from departure end of runway, 587' left of centerline, 94' AGL/970' MSL, Pole 1127' from departure end of runway, 662' left of centerline, 46' AGL/926' MSL.

DETROIT LAKES. MN

DETROIT LAKES-WETHING FIELD (DTL) ORIG 05132 (FAA)

TAKE-OFF MINIMUMS: Rwvs 17.35, NA. NOTE: Rwy 31, highway 243' from departure end of runway, 267' right of centerline, 15' AGL/1404' MSL. Railroad 534' from departure end of runway, 298' right of centerline, 23' AGL/1411' MSL.

DEVILS LAKE, ND

DEVILS LAKE RGNL (DVL) AMDT 1A 09351 (FAA)

TAKE-OFF MINIMUMS: Rwy 31, 300-1 or std. with a min, climb of 350' per NM to 1600.

NOTE: Rwv 3, tree 1528' from DER, 319' left of centerline, 100' AGL/1490' MSL, Tree 1520' from DER. 136' right of centerline, 100' AGL/1489' MSL. Rwv 13. bush 266' from DER, 523' left of centerline, 17' AGL/ 1451' MSL, Road, light pole and antenna on building beginning 95' from DER, 414' right of centerline, up to 17'AGL/1484' MSL. Rwv 21, roads beginning 335' from DER, 2' right of centerline, 15' AGL/1447' MSL. multiple poles, trees and towers beginning 552' from DER 355' left of centerline, up to 123' AGL/1548' MSL. Rwy 31, road 470' from DER, 424' right of centerline, 15' AGL/1472' MSL. Multiple poles and trees beginning 1180' from DER, 354' left of centerline, up to 49' AGL/ 1545' MSL.

DICKINSON ND

DICKINSON-THEODORE ROOSEVELT RGNI

AMDT 1 05244 (FAA)

DEPARTURE PROCEDURE: Rwv 25. climb via heading 250° to 3100 before turning left. NOTE: Rwy7, road 887' from departure end of runway, on rwy centerline, 15' AGL/2631' MSL.

DODGE CENTER. MN

DODGE CENTER (TOB)

ORIG 09015 (FAA)

TAKE-OFF MINIMUMS: Rwv 22, NA-Environmental. NOTE: Rwv 16, trees 3945' from departure end of runway. 1542' left of centerline, 100' AGL/1409' MSL.

DULUTH. MN

DULUTH INTL (DLH)

ORIG 06327 (FAA)

NOTE: Rwv 3, multiple trees beginning 21' from departure end of runway, 226' right of centerline, up to 68' AGL/1477' MSL. Multiple trees beginning 246' from departure end of runway, 26' left of centerline, up to 64' AGL/1473' MSL. Rwv 9. electrical equipment 207' from departure end of runway, 408' left of centerline, 6' AGL/ 1425' MSL. Rwy 21, tower 3762' from departure end of runway, 410' left of centerline, 92' AGL/1522' MSL. Rwy 27, tree 2426' from departure end of runway, 1127' right of centerline, 53' AGL/1522' MSL, Bush and multiple trees beginning 347' from departure end of runway, 484' left of centerline, up to 44' AGL/1533' MSL.

SKY HARBOR (DYT) ORIG 83174 (FAA)

TAKE-OFF MINIMUMS: Rwy 14, 300-1. Rwy 32, 1500-2 or std. with a min. climb of 360' per NM to 2300. DEPARTURE PROCEDURE: Rwy 14, northwest departures (260° CW 030°) climb to 2300 via heading 260° or 030° before proceeding on course.

EAGLE BUTTE. SD

CHEYENNE EAGLE BUTTE (84D) ORIG 96228 (FAA) TAKE-OFF MINIMUMS: Rwys 13,31,300-1.

09351



ELY. MN

ELY MUNI (ELO)

AMDT 2 97086 (FAA)

TAKE-OFF MINIMUMS: Rwv 12, 300-1 or std. with a min, climb of 200' per NM to 1600

DEPARTURE PROCEDURE: Rwv 30, northbound departures climb runway heading to 2000 before turning.

EVELETH. MN

EVELETH-VIRGINIA MUNI (EVM)

AMDT 2 94118 (FAA)

TAKE-OFF MINIMUMS: Rwv 32, 800-2 or std. with a min. climb to 330' per NM to 2300

DEPARTURE PROCEDURE: Rwv 27. northwest departures (270°-050°) climb runway heading to 2200 before turning.

FAIRMONT, MN

FAIRMONT MUNI (FRM)

AMDT 3 09127 (FAA)

NOTE: Rwv 2, trees beginning 2466' from DER, 1105' right of centerline, up to 100' AGL/1269' MSL. Rwv 13. tree 2340' from DER 1039' left of centerline 100' AGL 1269' MSL. Rwy 20, trees beginning 1640' from DER. 914' right of centerline, up to 100' AGL/1289' MSL.

Trees beginning 913' from DER, 449' left of centerline. up to 100' AGL/1299' MSL. Rwy 31, trees beginning 954' from DER, 161' left of centerline, up to 100' AGL/ 1299' MSL. Trees and road beginning 791' from DER. 339' right of centerline, up to 57' AGL/1226' MSL.

FARGO, ND

HECTOR INTL (FAR)

AMDT 4 04330 (FAA)

TAKE-OFF MINIMUMS: Rwvs13.31, NA

NOTE: Rwv 9, multiple light poles 1124' from departure end of runway, 305' left of centerline, 20' AGL/927' MSL.

FERGUS FALLS. MN

FERGUS FALLS MUNI-EINAR MICKELSON FIELD (FFM)

ORIG 09239 (FAA)

NOTE: Rwy 13, trees beginning 2612' from DER, 128' right of centerline, up to 100' AGL/1269' MSL, Trees beginning 2514' from DER, 42' left of centerline, up to 100' AGL/1259' MSL. Rwy 17, trees beginning 1100' from DER 663' right of centerline, up to 100' AGL/1269' MSL. Road 222' from DER, 469' right of centerline, 15' AGL/1173' MSL. Rwy 35, trees beginning 2156' from DER, 176' right of centerline, up to 100' AGL/1289'

FOSSTON, MN

FOSSTON MUNI (FSE)

AMDT 1 87351 (FAA)

TAKE-OFF MINIMUMS: Rwys 14, 32, IFR takeoff not

DEPARTURE PROCEDURE: Rwy 16, climb runway heading to 2000 before turning.

GETTYSBURG, SD

GETTYSBURG MUNI (0D8)

AMDT 1 07018 (FAA)

NOTE: Rwv 4, multiple frees beginning 1011 from departure end of runway, 420' left of centerline, up to 60' AGI /2119 MSI Rwv13, multiple trees beginning 1897 from departure end of runway, 975' left of centerline, 60' AGI /2119 MSI Rwv 22, multiple trees beginning 679 from departure end of runway, 117' left of centerline, up to 60' AGL /2109' MSL

GLENCOE, MN

GLENCOE MUNI (GYL) ORIG 09071 (FAA)

NOTE: Rwv 13, trees beginning 349 from DER, 257 right of centerline, up to 100' AGL/1099' MSL. Trees. beginning 1211' from DER, 314' left of centerline, up to 100' AGL/1109' MSL. Terrain beginning 53' from DER, 166' left of centerline up to 998' MSI. Terrain beginning 286' from DER, 435' right of centerline, up to 1001' MSL. Rwv 31. trees beginning 501' from DER, 530' right of centerline, up to 100' AGL/1099' MSL, Tree 2577' from DER, 129' left of centerline, 100' AGL/1109'

GI FNWOOD MN

GLENWOOD MUNI (GHW)

AMDT 2 98337 (FAA)

TAKE-OFF MINIMUMS: Rwv 5, 1200-2 or std. with a min, climb of 220' per NM to 2900.

GRAFTON, ND

HUTSON FIELD (GAF)

ORIG 97086 (FAA)

TAKE-OFF MINIMUMS: Rwv 35, 400-2 or std. with a min, climb of 420' per NM to 1300.

GRAND FORKS, ND

GRAND FORKS INTL (GFK)

AMDT 2 09071 (FAA)

NOTE: Rwy 9L, tree 127' from DER, 451' left of centerline, 12' AGL/853' MSL. Rwy 27R, bush 38' from DER, 474' right of centerline, 5' AGL/844' MSL. Rwy 35L, obstruction light on DME 645' from DER, 198' left of centerline, 21' AGL/860' MSL. Rwy 35R, tree 1259' from DER, 521' right of centerline, 41' AGL/880' MSL. Tree 1655' from DER, 271' left of centerline, 45' AGL/ 884'MSL.

GRANT MARAIS. MN

GRAND MARAIS/COOK COUNTY (CKC) ORIG 09015 (FAA)

NOTE: Rwy 9, trees beginning 58' from departure end of runway, 168' right of centerline up to 54' AGL/1833' MSL, Bushes 112' from departure end of runway, 142' left of centerline, 11' AGL/1805' MSL, Tree 464' from departure end of runway, 75' left of centerline, 14' AGL/ 1813' MSL. Rwy 27, trees beginning 85' from departure end of runway, 187' left of centerline, up to 59' AGL/1858' MSL. Trees beginning 282' from departure end of runway, 115' right of centerline, up to 42' AGL/1861' MSL.



GRAND RAPIDS. MN

GRAND RAPIDS/ITASCA COUNTY-GORDON NEWSTROM FIELD (GPZ)

AMDT 4 09127 (FAA)

TAKE-OFF MINIMUMS: Rwvs 5.10.23.28. NA-Environmental

NOTE: Rwv 16, tree 1655' from DER 899' left of centerline, 51' AGL/1410' MSL, Tree 3236' from DER. 1130' right of centerline, 82' AGL/1441' MSL, Rwv 34. tree 3416' from DER, 1253' right of centerline, 100' AGL/1399' MSL.

GREGORY.SD

GREGORY MUNI. FLYNN FIELD (9D1) ORIG 97142 (FAA)

TAKE-OFF MINIMUMS: Rwv 31, 400-2 or std. with a min. climb of 210' per NM to 2600.

GWINNER.ND

GWINNER-ROGER MELROE FIELD (GWR)

ORIG 09183 (FAA)

TAKE-OFF MINIMUMS: Rwvs 6.24. NA-Environment. Rwy 34, Std. w/min, climb of 216' per NM to 2000, or 900-21/2 for climb in visual conditions

DEPARTURE PROCEDURE: Rwy 34, for climb in visual conditions, cross Gwinner-Roger Melroe Field at or above 2000, before proceeding on course.

NOTE: Rwv 16, terrain beginning 15' from DER, 73' right of centerline, 1257' MSL, Rwv 34, road and vehicle 436' from DER, on centerline, 15' AGL/1286' MSL.

HAWLEY. MN

HAWLEY MUNI (04Y)

ORIG 07074 (FAA)

NOTE: Rwv 34, road 15' from departure end of runway. 421' left of centerline, 15' AGL/1224' MSL.

HETTINGER.ND

HETTINGER MUNI (HEI) AMDT 1 98225 (FAA)

> TAKE-OFF MINIMUMS: Rwv 12, 300-1 or std. with a min. climb rate of 220' per NM to 3000. Rwys 17, 35 NA.

HIBBING.MN

CHISHOLM-HIBBING (HIB)

AMDT 6 04218 (FAA)

DEPARTURE PROCEDURE: Rwv 22, climb via heading 227° to 2200 before turning right. Rwy 31, climb via heading 310° to 2200 before turning left.

NOTE: Rwv 4, antenna on pole, 361' from departure end of runway, 409' right of centerline, 1377' MSL. Rwy 13, obstacle light on pole, 1184' from departure end of runway, 636' left of centerline. Numerous trees beginning 1291' from departure end of runway, 745' left of centerline up to 1419' MSL. Trees 1497' from departure end of runway, 563' right of centerline, 1388' MSL. Rwv 22, multiple trees beginning 368' from departure end of runway, 170' right of centerline, up to 1416' MSL. Multiple trees beginning 413' from departure end of runway, 117' left of centerline, up to 1400' MSL. Rwy 31, light standard, 865' from departure end of runway, 595' right of centerline, 1381' MSL.

HILL SBORO, ND

HILLSBORO MUNI (3H4) ORIG 97198 (FAA)

DEPARTURE PROCEDURE: Rwys 16, 34, climb runway heading to 2000 prior to turning westbound.

HINCKI FY MN

FIFLD OF DREAMS (04W)

ORIG 08045 (FAA)

NOTE: Rwv 6. Tree 82' from departure end of runway. 480' right of centerline, 100' AGL/1114' MSL, Tree 143' from departure end of runway 161' left of centerline 100' AGL/1114 MSL. Rwv 24. Tree 48 from departure end of runway, 165' left of centerline, 100' AGL/1124' MSL.

HOT SPRINGS, SD

HOT SPRINGS MUNI (HSR)

ORIG 97142 (FAA)

TAKE-OFF MINIMUMS: Rwv 1, 300-1 or std. with a min. climb of 360' per NM to 5000, Rwy 19, 300-2 or std. with a min. climb of 250' per NM to 5000.

DEPARTURE PROCEDURE: Rwvs 1.19, climb runway heading to 5000 before proceeding westbound.

HURON.SD

HURON RGNL (HON)

AMDT 5 09239 (FAA)

NOTE: Rwy 12, trees and pole beginning 918' from DER. 525' left of centerline, up to 62' AGL/1341' MSL, Trees beginning 291' from DER, 234' right of centerline, up to 100' AGL/1389' MSL. Rwv 17, trees beginning 236' from DER, 307' left of centerline, up to 67' AGL/1346' MSL. Trees beginning 264' from DER, 262' right of centerline, 73' AGL/1352' MSL, Rwv 30, trees beginning 3428' from DER, 1378' left of centerline, up to 100' AGL/1394' MSL. Rwv 35, trees beginning 60' from DER, 104' left of centerline, up to 49' AGL/1328' MSL. Trees beginning 251' from DER, 97' right of centerline, 52'AGL/1331'MSL.

INTERNATIONAL FALLS. MN

FALLS INTL (INL)

AMDT 3 08101 (FAA)

NOTE: Rwv 4. Tree 392' from departure end of runway 311'left of centerline, 51'AGL/1231'MSL, Rwv 13. multiple trees beginning 1999' from departure end of runway, 773' left of centerline, up to 63' AGL/1233' MSL. Pole 1091, from departure end of runway, 703' right of centerline, 37' AGL/1207' MSL, Road 1005' from departure end of runway, 766' left of centerline, 15' AGL/ 1195' MSL. Rwy 22, Multiple trees beginning 433' from departure end of runway 273' left of centerline, up to 33' AGL/1213' MSL. Trees 1144' from departure end of runway 136' right of centerline, 28' AGL/1208' MSL. Rwv 31. Trees 968' from departue end of runway, 752' left of centerline, 56' AGL/1236' MSL.

 $\overline{f V}$ take-off minimums and (obstacle) departure procedures $\overline{f V}$

JACKSON MN

JACKSON MUNI (MJO) ORIG 08045 (FAA)

TAKE-OFF MINIMUMS: Rwys 4.22, NA-TURE

DEPARTURE PROCEDURE: Rwv 13, Climb heading

134° to 1900 before turning right

NOTES: Rwv 13. Trees beginning 1474' from departure

end of runway 556' left of centerline up to 80' AGL /1539' MSI Vehicle on road 258' from departure end of

618' left of centerline, 15' AGL/1446' MSL. Trees

runway, 559' from centerline, 15' AGL/1459' MSL. Rwy 31. Vehicle on road 465' from departure end of runway

of centerline up to 80' AGI /1519' MSI. Trees

beginning 1616' from departure end of runway, 580' right

beginning 1110' from departure end of runway, 429' left of centerline up to 80' AGL/1509' MSL

JAMESTOWN, ND

JAMESTOWN RGNI (JMS) AMDT 1 07242 (FAA)

NOTE: Rwv 22, antenna and tank beginning 2960' from departure end of runway, 1007' left of centerline, up to 150' AGL/1631' MSL. Rwv 31, multiple trees beginning 2129' from departure end of runway 47' right of centerline, up to 60' AGL/1560' MSL.

LITCHFIELD. MN

LITCHFIELD MUNI (LJF) DEPARTURE PROCEDURE: Rwvs 13.31, climb to 1800 on runway heading before proceeding on course.

LITTLE FALLS, MN

LITTLE FALLS/MORRISON COUNTY CHARLES A LINDBERGH FIELD (LXL)

AMDT 3 96172 (FAA) TAKE-OFF MINIMUMS: Rwv 13. 300-1 or std. with a

min_climb of 250' per NM to 1500_Rwv 36, 600-1% or std. with a min. climb of 345' per NM to 1700. DEPARTURE PROCEDURE: Rwv 31, climb to 1700 before turning.

LONG PRAIRIE, MN

TODD FIELD (14Y) ORIG 08157 (FAA)

NOTE: Rwv 16, tree 273' from departure end of runway. 310' right of centerline, 100' AGL/1436' MSL. Rwy 34, tree 70' from departure end of runway, 100' right of

centerline, 100' AGL/1439' MSL, Tree 122' from departure end of runway, 105' left of centerline, 100' AGL/ 1436' MSL, Tree 18' from departure end of runway, 106' right of centerline, 100' AGL/1433' MSL.

MANKATO. MN

MANKATO RGNL (MKT)

ORIG 09267 (FAA) NOTE: Rwy 4, trees beginning 447' from DER, 408'

up to 1029' MSL.

right of centerline, up to 100' AGL/1078' MSL. Trees beginning 1996' from DER, 17' left of centerline, up to 100' AGL/1084' MSL. Rwy 15, trees beginning 1552' from DER, 719' left of centerline, up to 100' AGL/1088' MSL. Rwy 22, trees beginning 2370' from DER, 989' right of centerline, up to 100' AGL/1069' MSL. Rwy 33, trees beginning 2085' from DER, 780' right of centerline, up to 100' AGL/1077' MSL. Rising terrain 9' from DER, 65' right of centerline, up to 1029' MSL. Terrain beginning 82' from DER, 60' left of centerline,

MARSHALL, MN

SOUTHWEST MINNESOTA RGNI MARSHALL/ RYAN FIFI D (MMI)

ΔMDT 2 08101 (ΕΔΔ)

TAKE-OFF MINIMUMS: Rwv 20. Std. w/min. climb of 270' per NM to 2000, or 1000-3 for climb in visual.

DEPARTURE PROCEDURE: Rwy 20, for climb in

visual conditions, cross Marshall Airport at or above 2000 MSL before proceeding on course.

NOTE: Rwv 12. Pole 706' from departure end of runway.

671' right of centerline, 60' AGL/1212' MSL, pole 1580' from departure end of runway, 732' left of centerline, 70' AGL/1225' MSL, antenna 1496' from departure end of

runway, 620' right of centerline, 64' AGL/1219' MSL. pole 1185' from departure end of runway, 540' right of centerline, 55' AGL/1210' MSL, tree 3564' from

departure end of runway, 400' right of centerline, 110' AGL/1269' MSL, tree 2135' from departure end of runway, 113' left of centerline, 77' AGL/1232' MSL. Rwy 30. Vehicle on road 1' from departure end of runway. 435' left of centerline, 24' AGL/1200' MSL.

MILBANK. SD MILBANK MUNI (1D1)

ORIG 08101 (FAA)

TAKE-OFF MINIMUMS: Rwy 25, Std. w/a min. climb of 207' per NM to 1900, or 900-21/2 for climb in visual conditions

DEPARTURE PROCEDURE: Rwy 25, For climb in visual conditions cross Milbank Muni airport at or abov

e 1900 before proceeding on course. NOTE: Rwy 7, trees beginning 1207' from departure end of runway, 387' left of centerline, up to 100' AGL/1219' MSL. Vehicle on road 829' from departure end of

runway, 373' right of centerline, 15' AGL/1134' MSL. Building 322' from departure end of runway, 582' right of centerline, 25' AGL/1134' MSL. Rwy 13, trees beginning 1448' from departure end of runway, 394' right of centerline, up to 100' AGL/1219' MSL, Vehicle on road 218' from departure end of runway, 490' left of

centerline, 15' AGL/1134' MSL, Building 78' from

departure end of runway, 397' left of centerline, 25' AGL/ 1134'MSL, Rwy 25, tree 3584' from departure end of runway, 477' left of centerline, 100' AGL/1249' MSL. Rwy 31, tree 2992' from departure end of runway, 715' left of centerline, 100' AGL/ 1239' MSL.

MILLER, SD MILLER MUNI (MKA)

ORIG 08269 (FAA)

AGL/1669'MSL.

NOTE: Rwv 15, vehicle on road 769' from departure end of runway, 642' right of centerline, 15' AGL/1599' MSL. Snow removal equipment 206' from departure end of runway, 475' right of centerline, 21' AGL/1594' MSL. Tree 3903' from departure end of runway, 998' left of centerline, 100' AGL/1684' MSL, Rwv 33, vehicle on road 450' from departure end of runway, 560' left of centerline, 15' AGL/1584' MSL. Tree 762' from departure end of runway, 628' left of centerline, 100'

09351



MINNEAPOLIS. MN

ANOKA COUNTY-BLAINE AIRPORT (JANES FIELD) (ANE)

AMDT 4 07018 (FAA)

DEPARTURE PROCEDURE: Rwv 9. climb heading 089° to 2600 before turning right. Rwv 18. climb heading 179° to 2600 before turning left, Rwy 27, climb heading 269° to 1800 before proceeding southeast bound, Rwv 36, climb heading 359° to 1800 before proceeding southeast bound.

NOTE: Rwv 9, multiple trees 821 from departure end of runway. 619' right of centerline, up to 51' AGL/961' MSL. Tank 1.1 NM from departure end of runway. 1280' right of centerline, 170' AGL/1082' MSL, Rwv 27. multiple trees 559' from departure end of runway. 404 left of centerline, up to 50' AGL /946' MSL, Multiple trees 480' from departure end of runway, 394' right of centerline, up to 26' AGL/922' MSL. Rwv 36, multiple trees 191' from departure end of runway, 495' right of centerline, up to 78' AGL/971' MSL. Multiple trees 1458' from departure end of runway 53' left of

CRYSTAL (MIC)

AMDT 2 81050 (FAA)

centerline, up to 59' AGL/958' MSL.

TAKE-OFF MINIMUMS: Rwvs 14L.14R.32L.32R. 300-1, Rwvs 24L.24R, 300-1 or std, with a min, climb of 215' per NM to 1000, Rwys 6L, 6R, 300-1 or std. with a min, climb of 285' per NM to 1000. DEPARTURE PROCEDURE: Rwys 6L, 6R, 14L, 14R, eastbound departures (050°-130°) climb runway

FLYING CLOUD (FCM) AMDT 4 08157 (FAA)

heading to 2800 before turning.

NOTE: Rwv 10L, multiple antenna's on hangar's beginning 270' from departure end of runway, 330' left of centerline, up to 26' AGL/932' MSL. Tree 682' from departure end of runway, 668' right of centerline, 26 AGL/932' MSL. Rwy 10R, multiple obstruction light on poles beginning 287' from departure end of runway. 345' right of centerline, up to 36' AGL/939' MSL. Hangar 150' from departure end of runway, 422' right of centerline, 21' AGL/920' MSL. Antenna on building, 536' from departure end of runway, 263' right of centerline, 14' AGL/913' MSL. Rwy 18, multiple trees beginning 338' from departure end of runway, 166' left of centerline, up to 62' AGL/961' MSL. Obstruction light on fence 176' from departure end of runway, 127' left of centerline, 10' AGL/910' MSL. Vehicle and road 198' from departure end of runway, 196' left of centerline, 15' AGL/918' MSL, Floodlight 148' from departure end of runway, 374' right of centerline, 38' AGL/938' MSL. Obstruction light on hangar 282' from departure end of runway, 317' right of centerline, 37' AGL/937' MSL. Rwy 28R, Hangar 259' from departure end of runway, 355' right of centerline, 18' AGL/931' MSL. Rwy 36, wind vane 923' from departure end of runway, 404' left of centerline, 61' AGL/960' MSL. Vent on building 943' from departure end of runway, 295' left of centerline, 44' AGL/943' MSL. Pole 714' from departure end of runway, 351' left of centerline, 33' AGL/932' MSL. Multiple trees beginning 504' from departure end of runway, 324' right of centerline, up to 67' AGL/966' MSL.

MINNEAPOLIS-ST PAUL INTI (WOLD CHAMBERLAIN) (MSP) AMDT 11 07130 (FAA)

TAKEOFF MINIMUMS: Rwv 35, std. with a min. climb of

219' per NM to 2100

DEPARTURE PROCEDURE: Rwv 4. climb heading 043° to 2100 before turning left, Rwv30L, climb heading 299° to 2100 before turning right Rwy 30R. climb heading 299° to 2100 before turning right. Rwv 35, climb via heading 348° to 2100 before turning

NOTE: Rwv 4, multiple trees beginning 800' from

departure endof runway 264' left of centerline, up to 75' AGL/921 MSL. Rod on building 2528 from departure end of runway, 1175' left of centerline, 78' AGL/922' MSI Fence 803' from departure end of runway 585' left of centerline, 15' AGL/860' MSL, Antenna on OL building 456' from departure end of runway 319' left of centerline, 13' AGL/850' MSL, Light poles 1932' from departure end of runway, 718' left of centerline, 45' AGI /885 MSI Stack 4535 from departure end of runway, 481' left of centerline, 139' AGL/949' MSL, Rwy 12R, multiple trees beginning 1477' from departure end of runway, 407' left of centerline, up to 86' AGL/851' MSL. Multiple trees beginning 1426' from departure end of runway 124' right of centerline, up to 111' AGL/ 847' MSL. Light pole 1408' from departure end of runway, 746' right of centerline, 85' AGL/843' MSL. Radar RFLTR 983' from departure end of runway, 32' left of centerline, 15' AGL/829' MSL. Pipe on building. 826' from departure end of runway 576' left of centerline, 10' AGL/825' MSL. Obstruction light on localizer 766' from departure end of runway, on centerline, 7'AGL/821'MSL, Rwy 17, antenna 1272' from departure end of runway, 562' right of centerline. 57' AGI /891' MSI Pole 409' from departure end of runway, 530' right of centerline, 29' AGL/866' MSL. WDI on building 2619' from departure end of runway. 881' left of centerline, 97' AGL/918' MSL, Building 2619' from departure end of runway, 859' left of centerline 84' AGL/905' MSL Light 1176' from departure end of runway, 291' right of centerline, 11' AGL/875' MSL. Tree 2619' from departure end of runway, on centerline, 79' AGL/900' MSL. Rwy 22, tree 2906' from departure end of runway, 833' right of centerline, 94' AGL/934' MSL, Hopper 1717' from departure end of runway, 456' left of centerline, 48' AGL/888' MSL. Rwv 30L, multiple trees beginning 1113' from departure end of runway, 701' left of centerline, up to 80' AGL/919' MSL. Tree 1230' from departure end of runway, 633' right of centerline, 30' AGL/877' MSL. Ground 28' from departure end of runway, 490' right of centerline, 0' AGL/844' MSL. Rwy 30R, building 1056' from departure end of runway. 198' left of centerline, 13' AGL/853' MSL, Multiple trees beginning 3010' from departure end of runway. 334' left of centerline, up to 94' AGL/940' MSL. Light pole 1849' from departure end of runway, 698' right of centerline, 17' AGL/871' MSL. Fence 1327' from departure end of runway, 667' right of centerline, 8' AGL/857' MSL. Tree 3703' from departure end of runway, 350' right of centerline, 67' AGL/914' MSL, Rod on pole 3143' from departure end of runway, 47' right of centerline, 38'

of runway, 398' right of centerline, 73' AGL/883' MSL. Multiple trees beginning 1989' from departure end of runway, 351' left of centerline, up to 65' AGL/902' MSL. Multiple buildings beginning 5.45 NM from departure end of runway, 1787' left of centerline, up to 811' AGL/ 1743' MSL.

AGL/898' MSL, Rwv 35, tree 175' from departure end

MINOT, ND

MINOTINTI (MOT)

AMDT 3 06103 (FAA)

TAKE-OFF MINIMUMS: Rwv 26, 300-1% or std. with a min_climb of 219' per NM to 2000

DEPARTURE PROCEDURE: Rwv 13, climb via heading 128° to 2200 before turning right Rwy 26. climb via heading 260° to 2300 before turning left.

NOTE: Rwv 8. tree 1801' from departure end of runway. 292' left of centerline, 56' AGL /1714' MSL. Tree 1459' from departure end of runway, 528' left of centerline, 47' AGL/1705 MSL. Rwv 26. tree 1750 from departure end of runway, 618' right of centerline, 71' AGL/1786' MSL. Tree 1829' from departure end of runway, 376' left of centerline, 65' AGL/1780' MSL, Light pole 1110' from departure end of runway, 610' left of centerline, 44' AGL/1759' MSL. Tank 1.1 NM from departure end of runway, 1810' right of centerline, 184' AGL/1899' MSL. Tree 1782' from departure end of runway, 273' right of centerline 49' AGL/1764' MSL Light pole 1294' from departure end of runway, 452' right of centerline, 29' AGL/1751 MSL. Tree 2019 from departure end of runway, 393' right of centerline, 54' AGL/1769' MSL. Building 1431' from departure end of runway, 301' right of centerline, 38' AGL/1753' MSL, Light pole 1418' from departure end of runway, 23' right of centerline. 36' AGL/1751' MSL

MITCHELL. SD

MITCHELL MUNI (MHE)

AMDT 1 86240 (FAA)

DEPARTURE PROCEDURE: Rwvs 12.17, climb to 1800 before turning.

MOBRIDGE, SD

MOBRIDGE MUNI(MBG)

ORIG 88154 (FAA)

TAKE-OFF MINIMUMS: RWY 35, 300-1.

DEPARTURE PROCEDURE: Rwys 12, 17, 30, 35, climb runway heading to 2500 before turning on course.

MONTEVIDEO, MN

MONTEVIDEO-CHIPPEWA COUNTY (MVE)

TAKE-OFF MINIMUMS: Rwv 21, 400-11/2.

DEPARTURE PROCEDURE: Rwv 14. climb runwav heading to 1500 before turning.

MOOSE LAKE, MN

MOOSE LAKE CARLTON COUNTY (MZH) ORIG 94006 (FAA)

TAKE-OFF MINIMUMS: Rwvs 4.22.300-1.

MORRIS. MN

MORRIS MUNI-CHARLIE SCHMIDT FLD

ORIG 08045 (FAA)

TAKE-OFF MINIMUMS: Rwys 4, 22, NA-

Environmental.

NOTE: Rwv 32. Trees 2888' from departure end of runway, 1125' left of centerline, 100' AGL/1209' MSL.

OAKES ND

OAKES MUNI (2D5)

ORIG 97142 (FAA)

TAKE-OFF MINIMUMS: Rwv 30, 300-1 or std. with a min, climb of 260' per NM to 1700.

OLIVIA. MN

OLIVIA RGNL (OVL)

AMDT 1 86044 (FAA)

TAKE-OFF MINIMUMS: Rwv 11, 300-1

ORR. MN

ORR RGNI (ORB)

AMDT 1 80136 (FAA)

TAKE-OFF MINIMUMS: Rwv 13, 500-2 or std. with a min_climb of 260' per NM to 1900

ORTONVILLE. MN

ORTONVILLE MUNI-MARTINSON FIELD (\/\/\)

ORIG 81274 (FAA)

TAKE-OFF MINIMUMS: Rwy 16, 300-1 or std. with a min, climb of 210' per NM to 1300.

OWATONNA, MN

OWATONNA DEGNER RGNI (OWA)

AMDT 2 97030 (FAA)

DEPARTURE PROCEDURE: Rwv 12, climb runwav heading to 1500 before turning on course.

PEMBINA, ND

PEMBINA MUNI (PMB)

ORIG 85325 (FAA)

DEPARTURE PROCEDURE: Rwy 33, climb runway heading 3200 before turning left.

PERHAM, MN

PERHAM MUNI (16D)

ORIG 98113 (FAA)

TAKE-OFF MINIMUMS: Rwy 12, 500-2 or std. with a min. climb of 210' per NM to 2000. Rwy 30, 400-1 or std. with a min. climb of 270' per NM to 1800.

DEPARTURE PROCEDURE: Rwy 12, climb runway heading to 2000 before proceeding on course. Rwy 30, climb runway heading to 1800 before proceeding on course.

PIERRE.SD

PIERRE RGNL (PIR)

AMDT 2 85115 (FAA)

TAKE-OFF MINIMUMS: Rwy 25, 300-1.

PINE RIDGE, SD

PINE RIDGE (IEN)

ORIG 97226 (FAA)

TAKE-OFF MINIMUMS: Rwv 12, 300-1 or std, with a min. climb of 350' per NM to 3600. Rwy 24, 300-1 or std. with a min. climb of 220' per NM to 3500. Rwy 30, 300-1 or std. with a min. climb of 300' per NM to 3600.



PIPESTONE. MN

PIPESTONE MUNI (PON)

ORIG 08045 (FAA)

TAKE-OFF MINIMUMS: Rwvs 9.27, NA-Environmental. NOTE: Rwv 18. Trees beginning 3811' from departure end of runway, 854' right of centerline, up to 100' AGL/ 1859' MSI

PRESTON MN

FILLMORE COUNTY (FKA) ORIG 98113 (FAA)

TAKE-OFF MINIMUMS: Rwvs 11.29.300-1.

PRINCETON, MN

PRINCETON MUNI (PNM)

AMDT 1 05132 (FAA)

NOTE: Rwv 15. trees 982' from departure end of runway. 335' right of centerline, 50' AGL/1029' MSL. Trees 1449' from departure end of runway, 387' left of centerline, 50' AGL/1029' MSL, Rwy 33, barn 1159' from departure end of runway, 780' right of centerline, 50' AGL/1139'MSL, multiple trees, terrain, and road beginning 36' from departure end of runway, 84' right of centerline, up to 50' AGL/1045' MSL.

RAPID CITY, SD

RAPID CITY RGNL (RAP)

AMDT 6 07130 (FAA)

DEPARTURE PROCEDURE: Rwv 5, climb on heading between 255° clockwise to 210° from departure end of runway, or min, climb of 240' per NM to 8800 for all other courses. Rwy 14, climb on heading between 325° clockwise to 210° from departure end of runway, or min. climb of 245' per NM to 8900 for all other courses. Rwy 23, climb on heading between 210° counter clockwise to 055° from departure end of runway, or min, climb of 268' per NM to 8900 for all other courses. Rwy 32, climb on heading between 255° clockwise to 140° from departure end of runway, or min. climb of 242' per NM to 8800 for all other courses.

NOTE: Rwv 5, fence 133' from departure end of runway. 249' left of centerline, 10' AGL/3215' MSL. Rwy 23, hangar 201' from departure end of runway, 299' left of centerline, 24' AGL/3193' MSL. Fence 334' from departure end of runway, 256' right of centerline, 10' AGL/3184' MSL. Rwy 32, obstruction light 662' from departure end of runway, 243' left of centerline, 54' AGL/ 3213' MSL. Fence 1002' from departure end of runway. 751' right of centerline, 10' AGL/3233' MSL. Tower 1.9 NM from departure end of runway, 3503' right of centerline, 152' AGL/3520' MSL.

RAY S. MILLER AAF (KRYM)

CAMP RIPLEY, MN AMDT 2, 09155 TAKE-OFF OBSTACLES: Rwy 13, Terrain 1270' MSL, 73' from DER, 8' left and right of centerline. Vehicle 15' AGL/1180' MSL, 765' from DER, 638' left of centerline. Rwy 31, Terrain 1273' MSL, 54' from DER, 9' left and right of centerline. Trees 64' AGL/1282' MSL, 798' from DER, 325' left and right of centerline.

RED WING MN

RED WING RGNL (RGK)

AMDT 1 01137 (FAA)

DEPARTURE PROCEDURE: Rwv 9, 700-4 or std. with a min_climb of 270' per NM to 1700

REDWOOD FALLS, MN

REDWOOD FALLS MUNI (RWF)

ORIG 09071 (FAA)

TAKE-OFF MINIMUMS: Rwys 5, 23, NA-Environmental. NOTE: Rwy 12, numerous buildings beginning 388' from DER, 376' right of centerline, up to 13' AGL/1052' MSL. Numerous fences beginning 6' from DER 329' right of centerline up to 13' AGL /1052' MSL Tree 62' from DER 444' left of centerline, 11' AGL/1040' MSL. Rwv 30. multiple trees beginning 865' from DER, 401' right of centerline, up to 100' AGL/1119' MSL. Vehicle on road 128' from DER 306' right of centerline 15' AGI /1027'

ROCHESTER.MN

ROCHESTER INTL (RST)

ORIG 09015 (FAA)

NOTE: Rwv 2, road 73' from departure end of runway. 385' right of centerline, 10' AGL/1292' MSL, Tree 4377' from departure end of runway, 1132' right of centerline, 100' AGL/1399' MSL. Road 268' from departure end of runway, 366' right of centerline, 10' AGL/1290' MSL. Rwy 13, tree 1498' from departure end of runway, 840' right of centerline, 44' AGL/1348' MSL, Rwy 20, pole 259' from departure end of runway, 407' right of centerilne, 23' AGL/1338' MSL, Roads beginning 1' from departure end of runway, 231' right of centerline, up to 10' AGL/1327'MSL. Rwv 31, tree 4760' from departure end of runway, 1103' left of centerline, 100' AGL/1389' MSL.

ROSEAU, MN

ROSEAU MUNI-RUDY BILLBERG FIELD (ROX) ORIG 07242 (FAA)

NOTE: Rwy 16, building 258' from departure end of runway, 505' right of centerline, 24' AGL/1078' MSL. Tree 1582' from departure end of runway, 337' left of centerline, 47' AGL/1101' MSL. Rwy 34, truck on road 41' from departure end of runway, 511' left of centerline, 15'AGL/1069'MSL.

RUSHFORD. MN

RUSHFORD MUNI (55Y)

AMDT 1 96228 (FAA)

TAKE-OFF MINIMUMS: Rwv 34, 300-1 or std. with a min, climb of 300' per NM to 1500.

DEPARTURE PROCEDURE: Rwv 16. climb runwav heading to 1700 before turning eastbound.



ST. CLOUD, MN

ST. CLOUD RGNL (STC)

ORIG 09239 (FAA)

TAKE-OFF MINIMUMS: Rwv 5, 300-11/2 or std. w/min. climb of 201' per NM to 1300 or alternatively, with standard take-off minimums and a normal 200 / NM climb gradient take-off must occur no later than 1100' prior to DER

NOTE: Rwv 5, tower 6201' from DER 1416' left of centerline, 149' AGL/1179' MSL. Multiple trees beginning 17' from DER, 373' right of centerline, up to 59'AGL/1081'MSL. Multiple trees beginning 1752' from DER, 56' left of centerline, up to 80' AGL/1102' MSL. Rwv 13. tree 1654' from DER, 884' right of centerline. 61' AGL/1078' MSL. Tree 1265' from DER, 794' left of centerline, 42' AGL/1059' MSL, Rwv 23, trees 2109' from DER 29' right of centerline up to 61' AGI /1082' MSI Trees 1725' from DER, 93' left of centerline, up to 55' AGL/1076' MSL, Fence 74' from DER, 216' left of centerline, 2' AGL, 1023' MSL, Rwv 31, terrain beginning 29' from DER, 50' right of centerline, up to 1083' MSL. Terrain beginning 107' from DER, 7' left of centerline, up to 1060' MSL.

ST. JAMES. MN

ST. JAMES MUNI (JYG) ORIG 94342 (FAA)

> DEPARTURE PROCEDURE: Rwv 15, climb to 1900 before turning eastbound.

ST. PAUL MN

LAKE ELMO (21D)

ORIG 80318 (FAA)

TAKE-OFF MINIMUMS: Rwv 22, 300-1 or std. with a min. climb of 225' per NM to 1100.

ST. PAUL DOWNTOWN HOLMAN FIELD (STP) AMDT 7 08157 (FAA)

TAKE-OFF MINIMUMS: Rwy 9, std. w/min. climb of 346' per NM to 1500. Rwy 13, std. w/min. climb of 266 per NM to 1500. Rwy 14, std. w/min. climb of 216' per NM to 1500. Rwy 27, std. w/min. climb of 436' per NM to 1500. Rwy 31, NA - obstacles. Rwy 32, std. w/min. climb of 340' per NM to 3000.

DEPARTURE PROCEDURE: Rwy 9, climb heading 088° to 1500 before proceeding on course. Rwy 13, climb heading 125° to 1500 before proceeding on course. Rwy 14, climb heading 143° to 1500 before proceeding on course. Rwy 27, climb heading 268° to 1700 before proceeding on course. Rwy 32, climb heading 323° to 1300 before proceeding on course.

NOTE: Rwy 9, multiple trees beginning 1265' from departure end of runway, 167' right of centerline, up to 75' AGL/1055' MSL. Multiple trees beginning 1.1 NM from departure end of runway, 124' left of centerline, up to 100' AGL/1099' MSL. Obstruction light tank 1571' from departure end of runway, 771' right of centerline, 50' AGL/811'MSL. Mobile crane 1163' from departure end of runway, 123' left of centerline, 50' AGL/758' MSL.

ST PALIL DOWNTOWN HOLMAN FIELD (STP)(CON'T)

Rwv 13. Obstruction light stack 2695' from departure end of runway 842' right of centerline 50' AGL /820' MSL. Tree 1563' from departure end of runway, 25' right of centerline, 61' AGL /748' MSL. Multiple trees beginning 1004' from departure end of runway 607' left of centerline, 50' AGL/767' MSL. Tower 1,725' from departure end of runway 930' left of centerline 47' AGL/753' MSL. Vent on building 3029' from departure end of runway, 629' right of centerline, 10' AGL/783' MSI Multiple bushes beginning 194' from departure end of runway 88' left of centerline, 7'AGL/712' MSL. Stack 1.879 from departure end of runway 25 left of centerline, 51' AGL/751' MSL, Rwy 14, multiple trees beginning 805' from departure end of runway, 2' right of centerline up to 112' AGL/811' MSL Multiple trees beginning 1205' from departure end of runway, 64' left of centerline up to 80' AGL /770' MSL. Poles 2810' from departure end of runway 715' right of centerline, 91' AGL/778' MSL, Rwv 27, multiple trees beginning 803' from departure end of runway 122' left of centerline up to 100' AGL/994' MSL. Tree 783' from departure end of runway 105' right of centerline 25' AGL /725' MSL Obstruction light antenna 996' from departure end of runway, 304' right of centerline, 67' AGL/767' MSL. Light pole 1328' from departure end of runway 222' left of centerline, 50' AGL/747' MSL, Building 2049' from departure end of runway, 837' right of centerline, 57' AGL/761 MSL. Flaggole 2333 from departure end of runway, 199' left of centerline, 78' AGL/778' MSL, Stack 1.8 NM from departure end of runway, 635' left of centerline, 569' AGL/1279' MSL.

Rwv 32, road and vehicle 211' from departure end of runway, 482' left of centerline, 17' AGL/717' MSL. Railroad beginning 369' from departure end of runway. 329' left of centerline, up to 23' AGL /727' MSL. Pine on DME 383' from departure end of runway, 269' right of centerline, 17' AGL/722' MSL, Tree 1152' from departure end of runway, 209' left of centerline, 44' AGL/744' MSL, Tree 1685' from departure end of runway, 277' right of centerline, 75' AGL/770' MSL. Sign 5668' from departure end of runway, 1924' left of centerline, 86' AGL/874' MSL, Trees 5614' from departure end of runway, 1796' right of centerline, 100' AGL/939' MSL, Building 5779' from departure end of runway, 1733' right of centerline, 72' AGL/910' MSL. Pole 1.0 NM from departure end of runway, 1835' right of centerline, 157' AGL/973' MSL, Building 1,1 NM from departure end of runway, 2170' left of centerline. 122' AGL/886' MSL. Multiple buildings beginning 1.1 NM from departure end of runway, 378' left of centerline, up to 142' AGL/918' MSL

SILVER BAY, MN

SILVER BAY MUNI (BFW) ORIG 93035 (FAA)

TAKE-OFF MINIMUMS: Rwys 7, 25, 300-1.



SIOUX FALLS. SD

JOE FOSS FIELD (FSD)

AMDT 7 07242 (FAA)

TAKE-OFF MINIMUMS: Rwv 15, 200-1 or std. w/min. climb of 404' per NM to 1700. Rwv 33, 200-11/4 or std. w/min_climb of 343' per NM to 1700

DEPARTURE PROCEDURE: Rwv 3, climb heading 030° to 2300 before turning eastbound, Rwv 9, climb heading 098° to 2000, then left turn direct FSD VORTAC, Rwy 15, climb heading 150° to 2000, then right turn direct FSD VORTAC, Rwv 21, climb heading 210° to 2200 before turning eastbound. Rwy 27, climb heading 278° to 2100 before turning eastbound, Rwv 33. climb heading 330° to 2200 before turning eastbound.

NOTE: Rwv 9. antenna 2238' from departure end of runway, 919' right of centerline, 87' AGL/1506' MSL. Pole 1256' from departure end of runway, 23' left of centerline 43' AGI /1464' MSI Windsock 331' from departure end of runway, 582' right of centerline, 14' AGL/1433 MSL. Rwv 15, antenna 3056 from departure end of runway, 983' left of centerline 117' AGL/1576' MSL. Multiple trees beginning 1211' from departure end of runway, 471' left of centerline, up to 38' AGL/1477' MSL. Tower 3102' from departure end of runway, 972' left of centerline, 61' AGL/1520' MSL, Trees and pole beginning 1746' from departure end of runway, 316' right of centerline, up to 87' AGL/1516' MSL. Rwv 21. multiple trees beginning 428' from departure end of runway, 522' right of centerline, up to 75' AGL/1497' MSL, Rwv 27, multiple trees beginning 2528' from departure end of runway, 1027' left of centerline, up to 100' AGL/1509' MSL. Rwy 33, 2 lighted radio towers 3639' from departure end of runway, 894' left of centerline, 88' AGL/1585' MSL, multiple trees beginning 5370' from departure end of runway, 891' left of centerline, up to 175' AGL/1603' MSL, pole 5724' from departure end of runway, 1701' left of centerline, 45' AGI /1594'MSI

SPEARFISH.SD

BLACK HILLS-CLYDE ICE FIELD (SPF)

TAKE-OFF MINIMUMS: Rwvs 3. 8. 21. 35. 700-2 (NA at night.). Rwy 13, 900-2 or std. with a min. climb of 300' per NM to 5400. Rwy 17, NA. Rwys 26, 31, 700-2 or std. with a min. climb of 370' per NM to 4700.

DEPARTURE PROCEDURE: Rwys 3, 8, turn left. Climb to 6500, intercept the 046° bearing outbound from SPF NDB. Thence... Rwy 13, climb runway heading to 4300, then climbing left turn to 6500 via heading 360° to intercept the 046° bearing outbound from SPF NDB. Thence... Rwys 21, 35, turn right. Climb to 6500 intercept the 046° bearing outbound from SPF NDB. Thence... Rwy 26, climbing right turn to 6500 via heading 330°, intercept the 297° bearing outbound from SPF NDB. Thence... Rwy 31, after take-off, intercept 297° bearing outbound from SPF NDB. Climb to 6500. Thence... THENCE... Continue climb to enroute MEA's before proceeding on course.

STAPLES, MN

STAPLES MUNI (SAZ) AMDT 2 87211 (FAA) TAKE-OFF MINIMUMS: Rwy 14, 400-2.

STURGIS, SD

STURGIS MUNI (49R)

ORIG 96284 (FAA)

DEPARTURE PROCEDURE: Rwv 11. climb runwav heading to 6000, then direct RAP VORTAC. Rwy 29, climb runway heading to 5000, then climbing right turn to 6000 direct RAP VORTAC.

THIEF RIVER FALLS, MN

THIEF RIVER FALLS RGNL (TVF)

ORIG 09071 (FAA)

NOTE: Rwv 3. trees beginning 3058' from DER, 678' right of centerline, up to 100' AGL/1229' MSL. Rwv 13. trees beginning 565' from DER, 372' left of centerline. up to 100' AGL/1214' MSL. Trees beginning 1337' from DER, 531' right of centerline, up to 100' AGL/ 1209' MSL. Rwv 21. trees beginning 214' from DER. 544' right of centerline, up to 100' AGL/1204' MSL. Trees beginning 2185' from DER, 33' left of centerline. up to 100' AGL/1209' MSL. Rwv 31, trees beginning 126' from DER, 410' right of centerline, up to 100' AGL/1214' MSL. Trees beginning 199' from DER, 413' left of centerline, up to 100' AGL/1209' MSL. Trees beginning 1204' from DER, 449' right of centerline, up to 100' AGL/1199' MSL. Trees beginning 1579' from DER, 495' left of centerline, up to 100' AGL/1214' MSL.

TIOGA, ND

TIOGA MUNI (D60) ORIG 09239 (FAA)

> TAKE-OFF MINIMUMS: Rwvs 3. 21. NA-Environmental.

NOTE: Rwv 12, vehicle on road 1243' from DER 78' left of centerline, 15' AGL/2304' MSL, Vehicle on road. tree and pole beginning 618' from DER, 50' right of centerline, up to 100' AGL/2419' MSL, Ground 21' from DER, 481' right of centerline, 2272' MSL, Rwv 30. vehicle on road 1' from DER, 144' left of centerline, 15' AGL/2256' MSL.

TOWER. MN

TOWER MUNI (12D)

ORIG 09127 (FAA)

TAKE-OFF MINIMUMS: Rwv 8. NA - Obstacles. NOTE: Rwy 26, tree 2315' from DER, 700' right of centerline, 100' AGL/1479' MSL.

VERMILLION, SD

HAROLD DAVIDSON FIELD (VMR)

AMDT 1 09239 (FAA)

NOTE: Rwy 12, road 1' from DER, 200' right of centerline, up to 15' AGL/1156' MSL. Multiple trees beginning 541' from DER, 366' right of centerline, up to 62' AGL/1202' MSL. Rwy 30, road 79' from DER 342' left of centerline 15' AGL/1155' MSL. Road 200' from DER, 450' right of centerline, 15' AGL/1160' MSL. Fence 199' from DER, 347' left of centerline, 6' AGL/1150'MSL.

WAHPETON, ND

HARRY STERN (BWP) ORIG 93259 (FAA)

TAKE-OFF MINIMUMS: Rwy 3, 300-1.



WARREN MN

WARREN MUNI (D37)

ORIG 02108 (FAA)

DEPARTURE PROCEDURE: Rwv 30, climb runway heading to 1400 before turning on course

WARROAD MN

WARROAD INTI MEMORIAI (RRT) ORIG 08101 (FAA)

TAKE-OFF MINIMUMS: Rwvs 4, 22, NA-Environmental

WASECA. MN

WASECA MUNI (ACQ)

ORIG 09015 (FAA)

NOTE: Rwy 15, tree 560' from departure end of runway 560' right of centerline 100' AGI /1239' MSL. Terrain beginning 172' from departure end of runway, on centerline, up to 1149' MSL, Rwy 33. tree 5042' from departure end of runway, 1533' right of centerline, 100' AGL/1259' MSL.

WATERTOWN, SD

WATERTOWN RGNL (ATY)

ORIG 07242 (FAA)

NOTE: Rwv 12, tree 2015 from departure end of runway, 328' right of centerline, 100' AGL/1783' MSL. Rwv 30, trees 2149' from departure end of runway, 10' right of centerline, 51' AGL/1810' MSL. Tree 2200' from departure end of runway, 441' left of centerline, 70' AGL/1810' MSL. Tree 2082' from departure end of runway, 121' right of centerline, 55' AGI /1806' MSI

WATFORD CITY, ND

WATFORD CITY MUNI (\$25)

ORIG 98225 (FAA)

TAKE-OFF MINIMUMS: Rwv 30, 400-1 or std, with a min, climb of 340' per NM to 2600, Rwy 12, 300-1 or std. with a min climb of 300' per NM to 2600.

WHEATON. MN

WHEATON MUNI (ETH)

AMDT 1 92177 (FAA)

TAKE-OFF MINIMUMS: Rwv 16, 300-1, Rwvs 4, 22. NA.

WILLISTON, ND

SLOULIN FIELD INTL (ISN)

AMDT 3 00251 (FAA)

TAKE-OFF MINIMUMS: Rwy 29, 300-1 or std. with a min. climb of 270' per NM to 2300.

DEPARTURE PROCEDURE: Rwv 20. climb runwav heading to 2300 before turning westbound.

WILLMAR. MN

WILLMAR MUNIL IOHN L. RICE FIELD (RDH)

ORIG 06327 (FAA)

NOTE: Rwv 31, tree 1338 from departure end of runway, 740' left of centerline, 67' AGL/1193' MSI

WINNER SD

WINNER RGNI (ICR)

AMDT 3 09127 (FAA)

TAKE-OFF MINIMUMS: Rwys 3, 21, NA-Environmental

WINONA, MN

WINONA MUNI-MAX CONRAD FIELD (ONA)

AMDT 3 96228 (FAA)

TAKE-OFF MINIMUMS: Rwv 12, 300-1 or std. with a min, climb of 320' per NM to 800, Rwy 17. 600-1 or std with a min_climb of 500' per NM to 1300, Rwy 30, 500-1 or std. with a min. climb of 500' per NM to 1200, Rwy 35, 700-1 or std. with a min. climb of 390' per NM to 1500.

DEPARTURE PROCEDURE: Rwv 12. climb to 1900 via ONA R-110 before turning Rwys 17. 30, 35, climb runway heading to 1900 before turnina.

WORTHINGTON, MN

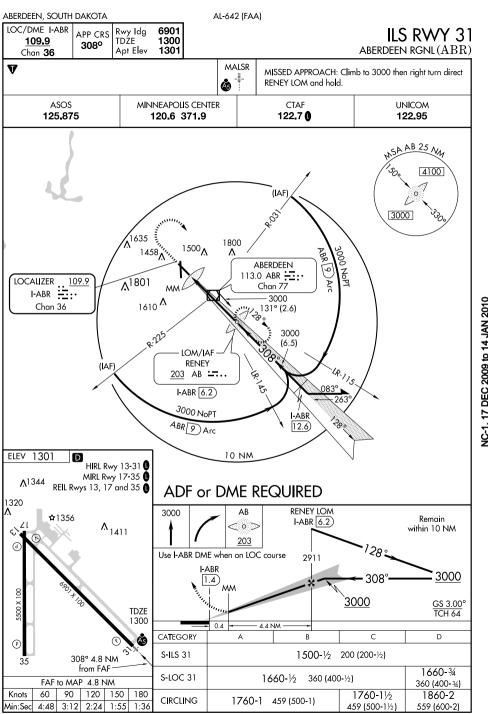
WORTHINGTON MUNI (OTG) AMDT 2 88154 (FAA)

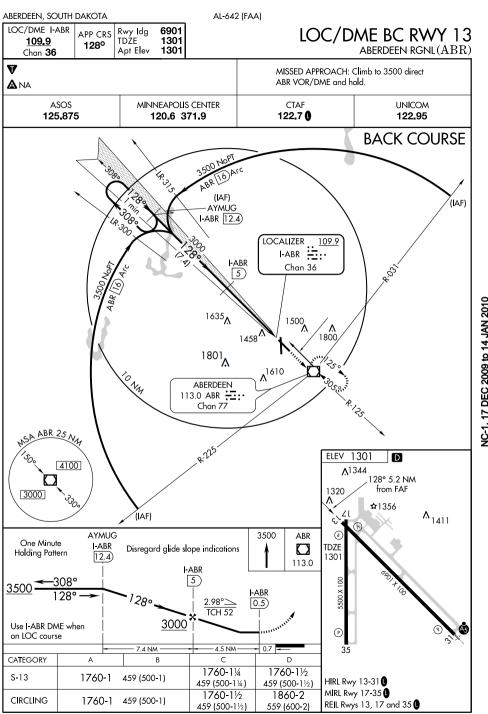
TAKE-OFF MINIMUMS: Rwv 17, 300-1. DEPARTURE PROCEDURE: Rwvs 11.17.29. 35, when weather is below 800-1 climb runway heading to 2400 before turning.

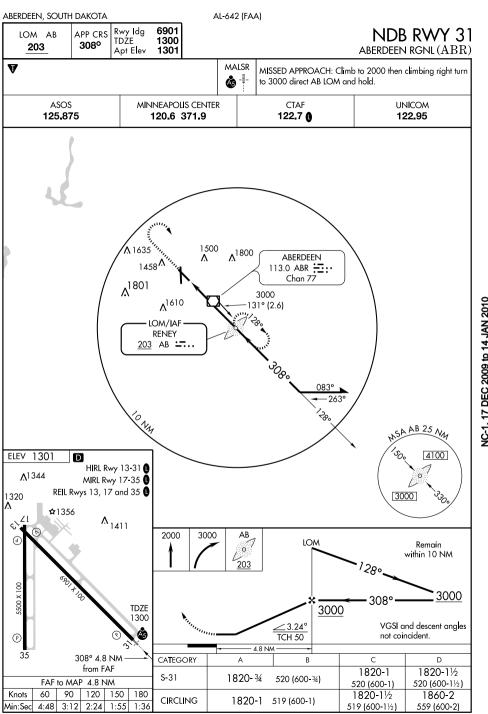
YANKTON.SD

CHAN GURNEY MUNI (YKN) AMDT 2 85003 (FAA)

TAKE-OFF MINIMUMS: Rwy 31, 300-1. DEPARTURE PROCEDURE: Rwvs 1.13.19. 31, climb runway heading to 2400 before turning.

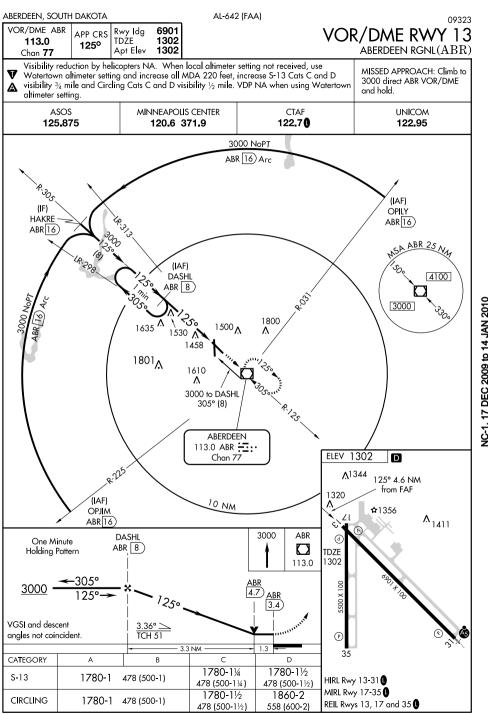


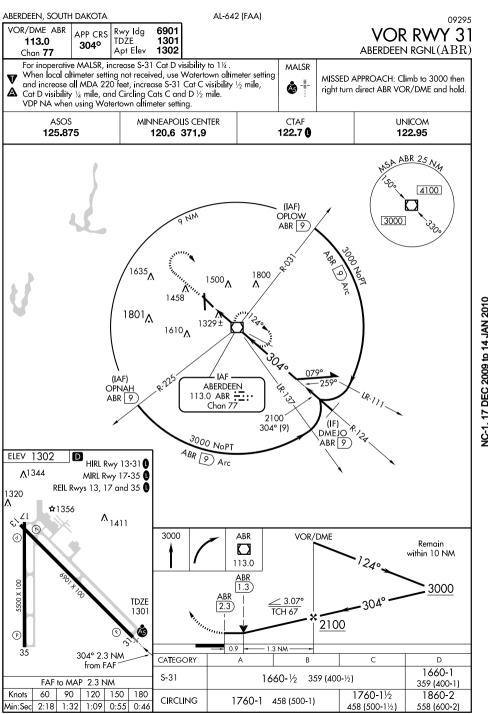


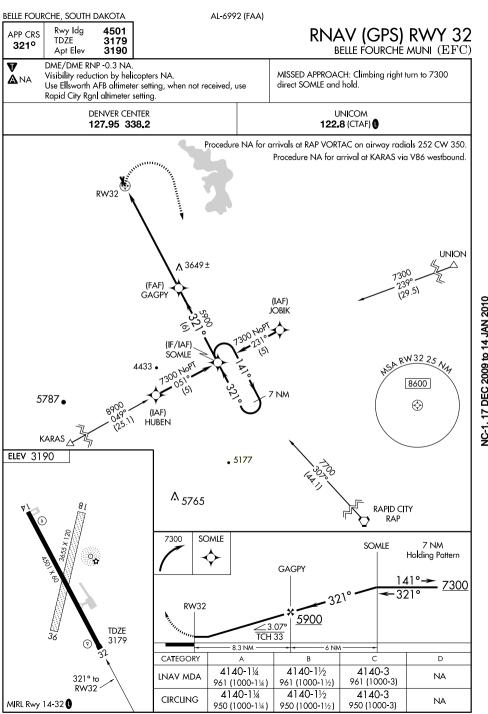


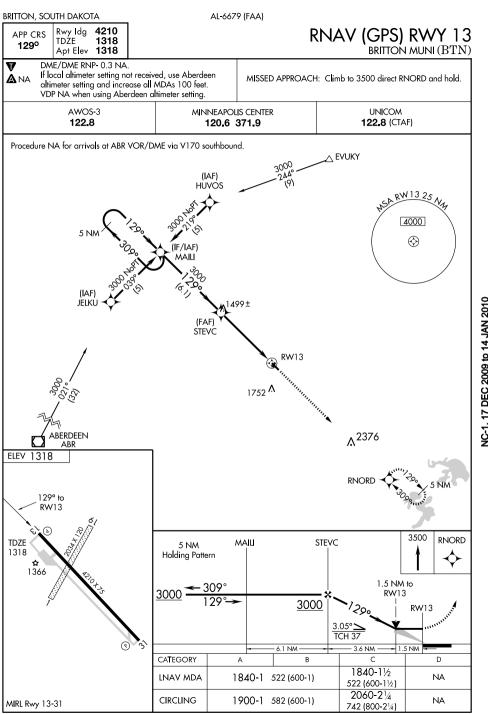
NC-1, 17 DEC 2009 to 14 JAN 2010

AC-1, 17 DEC 2009 to 14, IAN 2010



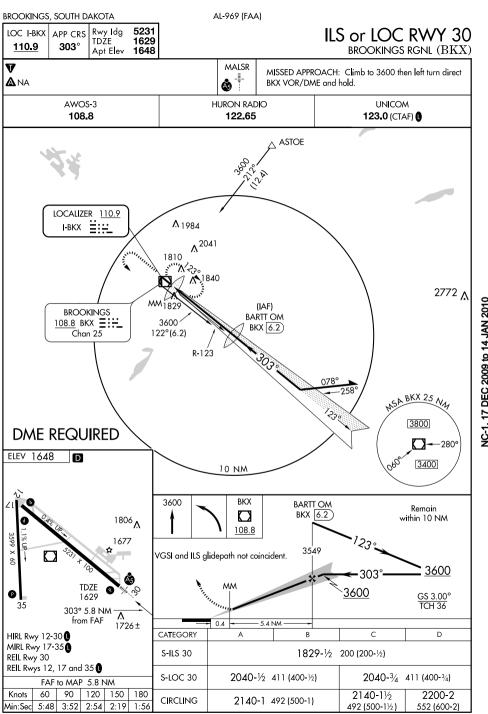


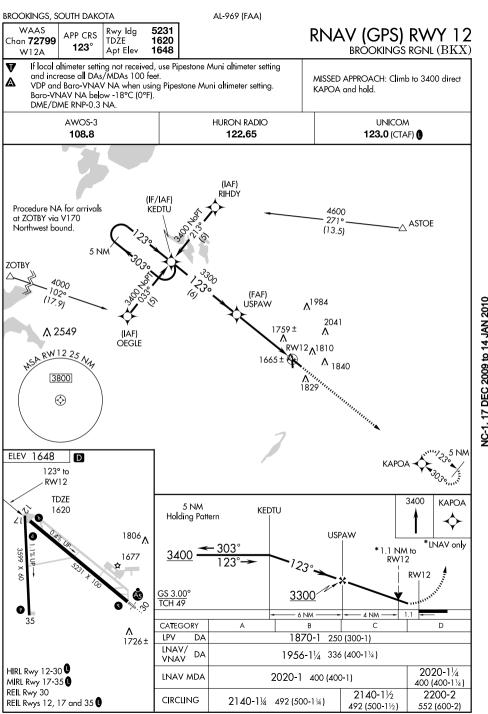


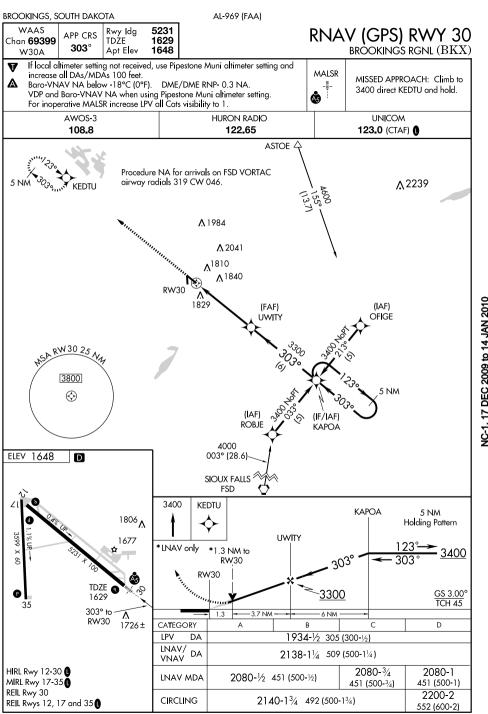


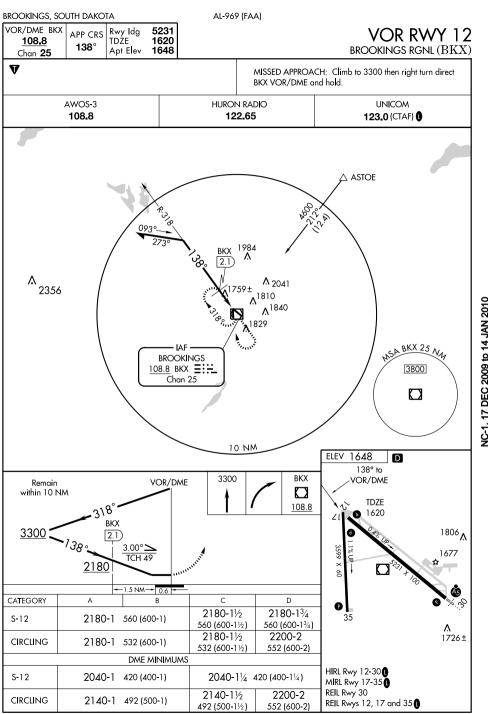
BRITTON, SOUTH DAKOTA AL-6679 (FAA) Rwy Idg 4210 RNAV (GPS) RWY 31 APP CRS TDŹE 1318 3090 BRITTON MUNI (BTN) Apt Elev 1318 DME/DME RNP-0.3 NA. V If local altimeter setting not received, use Aberdeen MISSED APPROACH: Climb to 3000 direct MAILI and hold. altimeter setting and increase all MDAs 100 feet. VDP NA when using Aberdeen altimeter setting. AWOS-3 MINNEAPOLIS CENTER UNICOM 122,8 120.6 371.9 122.8 (CTAF) SARW31 25 NZ 4000 **(** Variation of the State of the S RW31 1752 **∧** ۸^{1559 ±} **∧** 1679± (FAF) (IAF) HORTN ERSEZ ³600 2376 2850 RIRCO (IAF) (IF/IAF) THAVN RNORD **ELEV 1318** AMMAJ 3000 MAIL 5 NM RNORD Holding Pattern 1366 **HORTN** 1.4 NM to RW31 309° ≤3.04° TDZE RW31 TCH 37 1318 3000 1.4 NM 3.7 NM 6 NM -CATEGORY D Α 309° to 1820-11/2 RW31 NA LNAV MDA 1820-1 502 (600-1) 502 (600-11/2) 2060-21/4 CIRCLING 1900-1 582 (600-1) NA MIRL Rwy 13-31 742 (800-21/4)

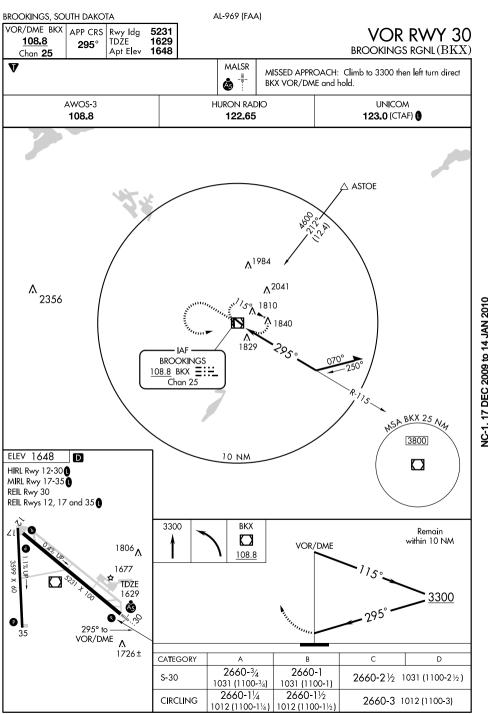
NC-1 17 DEC 2009 to 14 JAN 2010

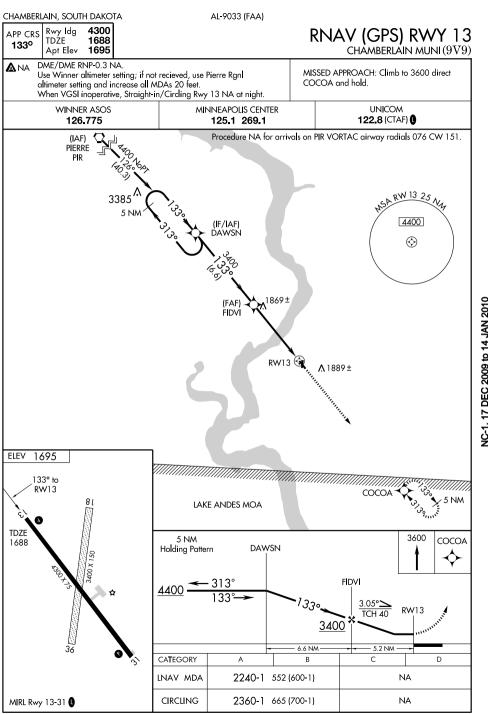


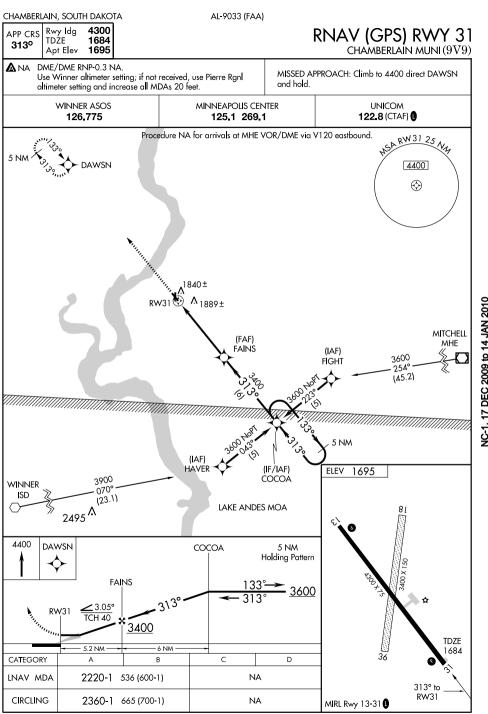


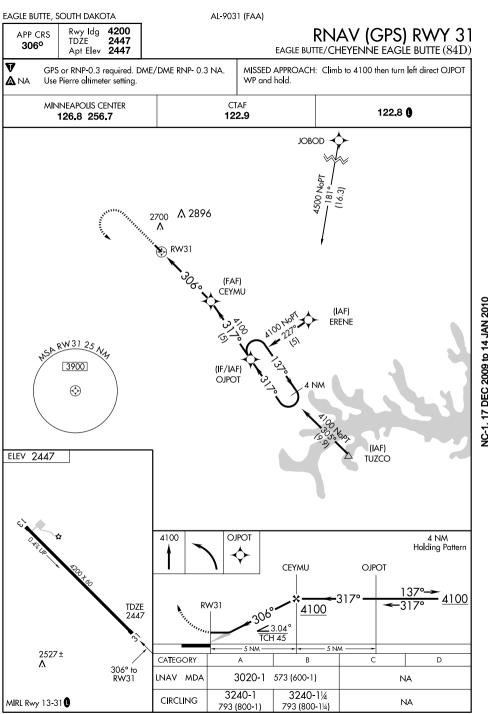


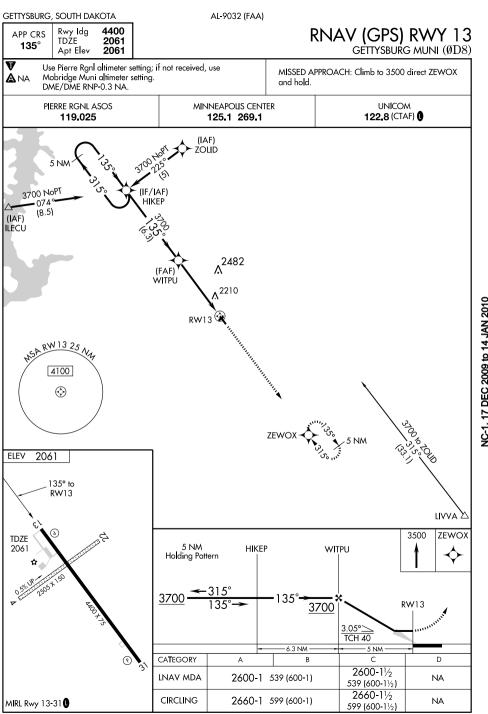


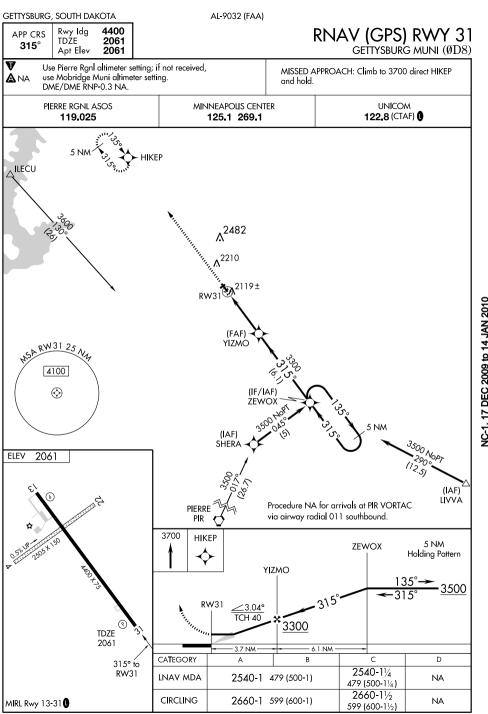


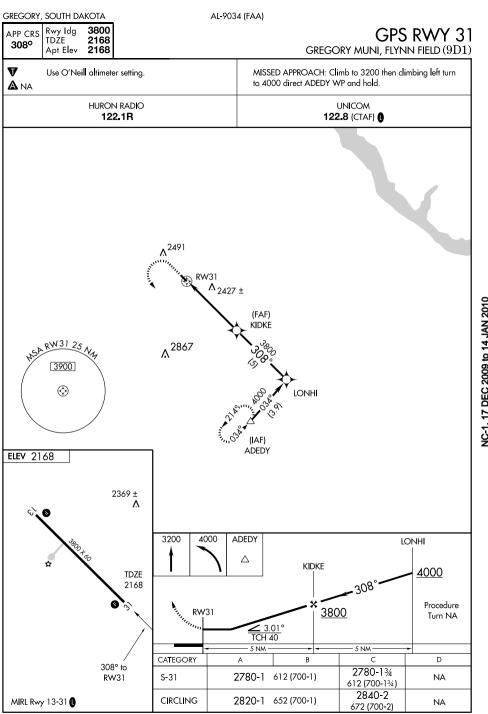




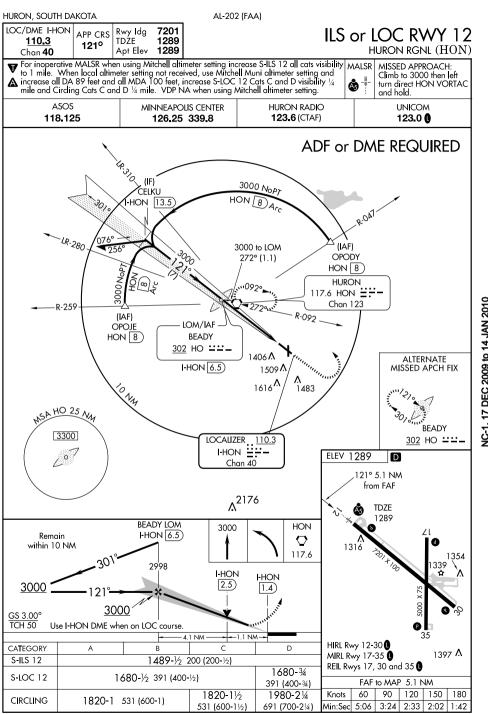


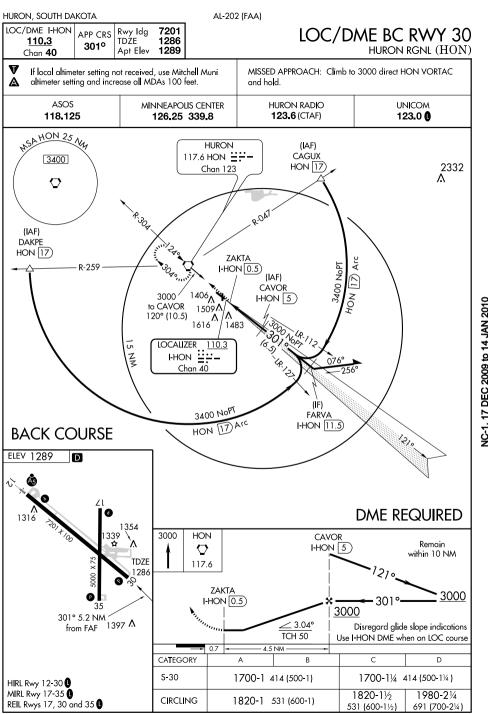


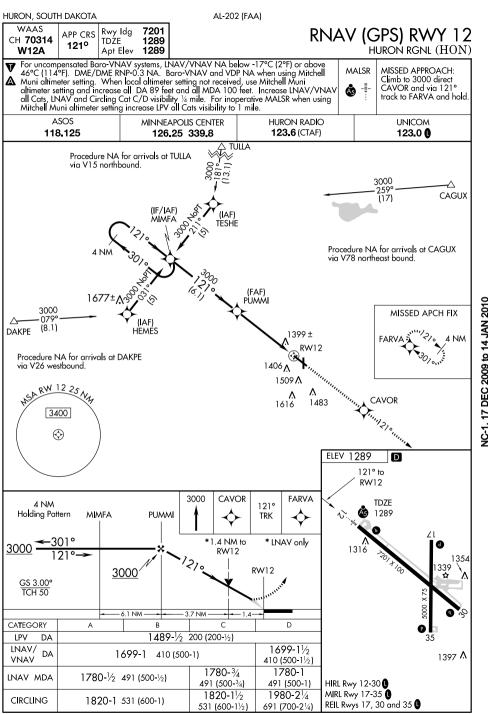


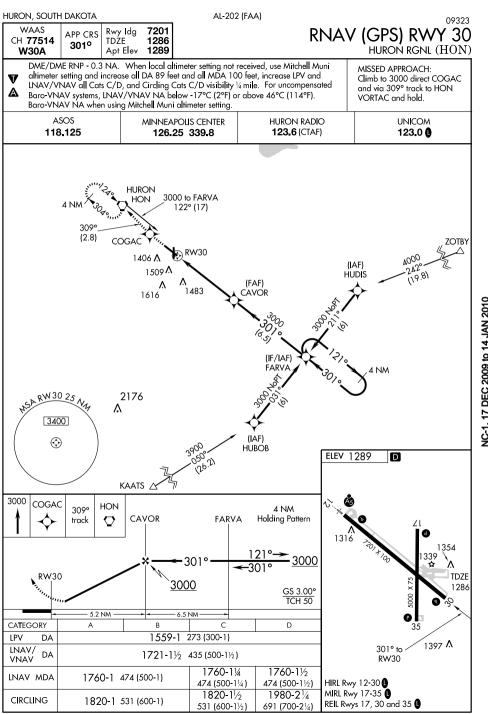


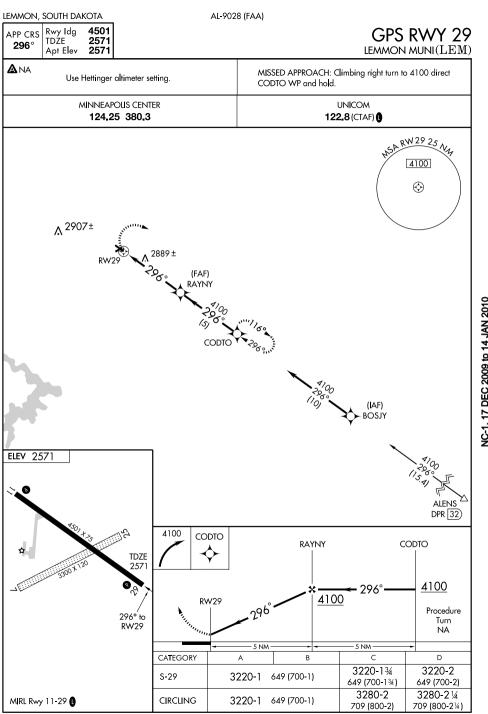
HOT SPRINGS, SOUTH DAKOTA		AL-904 (FAA)			
APP CRS					RWY 19 S MUNI (HSR)
▼ Use Rapid City Rgnl altimeter se		MISSED APPROACH: Climb to 4200 then climbing left turn to 6500 direct PAZNU WPT and hold.			
DENVER CEI 127.95 3 3		UNICOM 122.8 (CTAF) ()			
∧ 6214 ±		RAPID CITY RAP			
10400 091° WILDA (31) (IA		PT 0.5%	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		
	3973 ^ 4460	00 ± 3847 FAF) AWKE 0 ± 2.8 NM to	500 NoPT -282° (S)	(IAF) OGEBE	
192° to RW19 TDZE 3144	Thunke,	in more	0250 0550 0353° AXER	MSA P	7500 ©
**************************************	4200 655 A CATEGORY	2.8 NM RW19	360 5100	PAZNU ()	One Minute Holding Pattern 012° -192° 6500
	S-19 CIRCLING	3840-1 696 (70 3840-1 692 (70		3840-2 696 (700-2) 3840-2	3840-2¼ 696 (700-2¼) 3900-2½
MIRL Rwy 1-19 🗓	CINCELL 40	3040 1 072 (70	,	692 (700-2)	752 (800-2½)

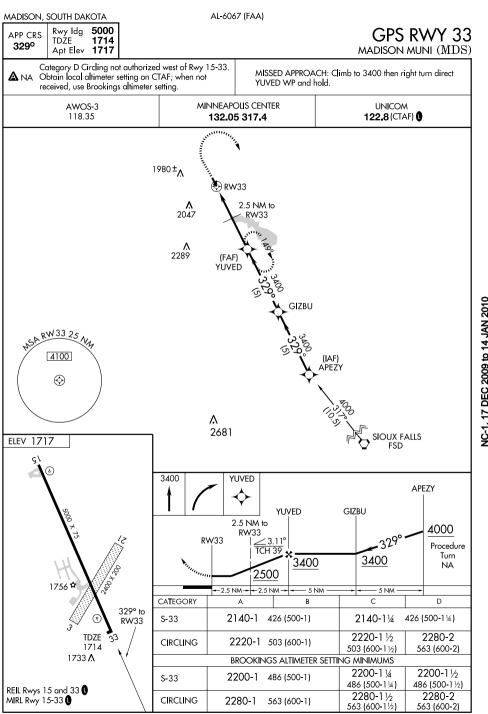


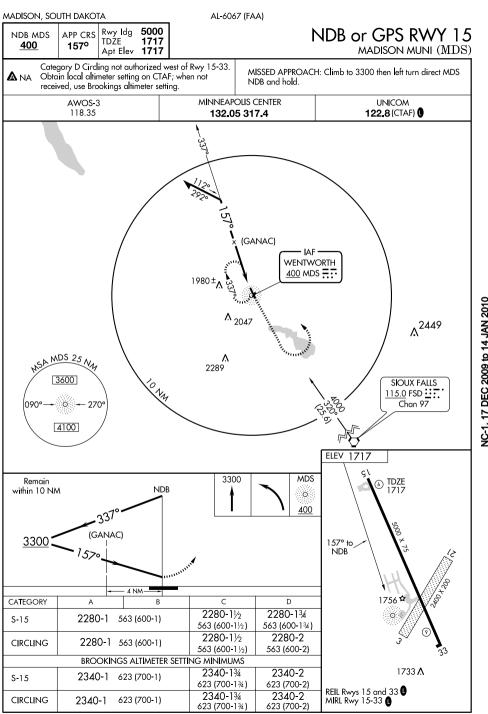


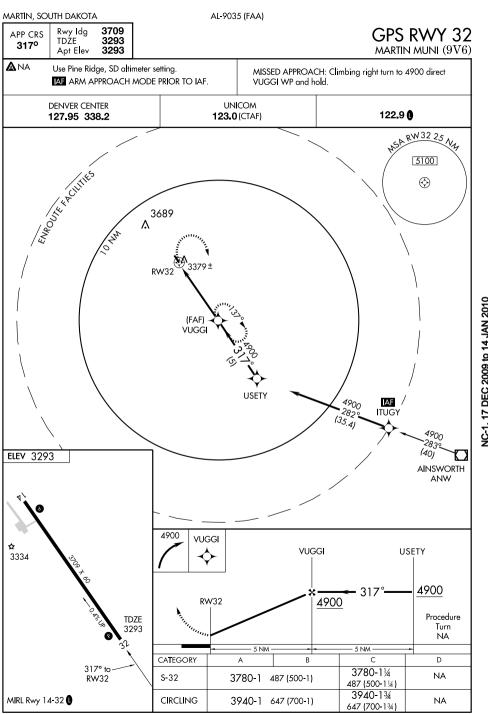


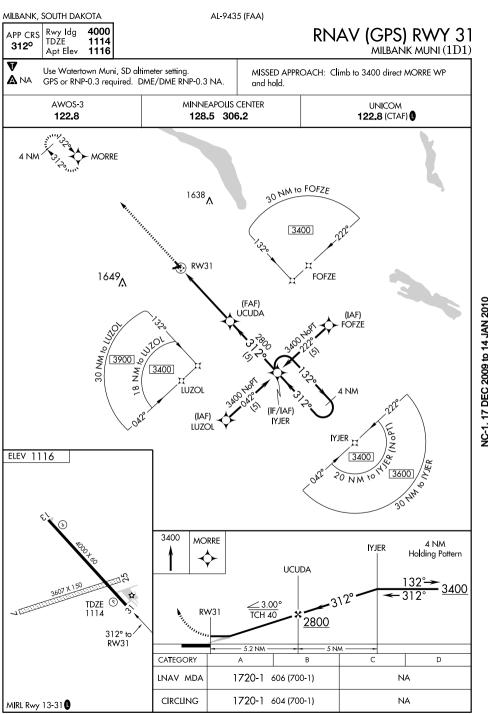


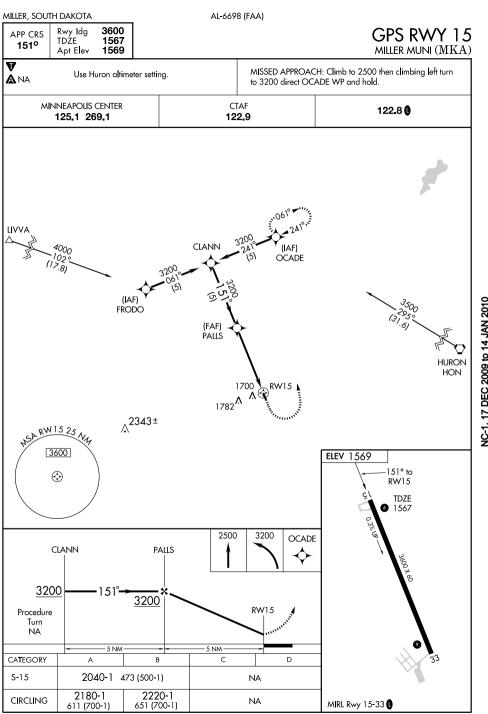


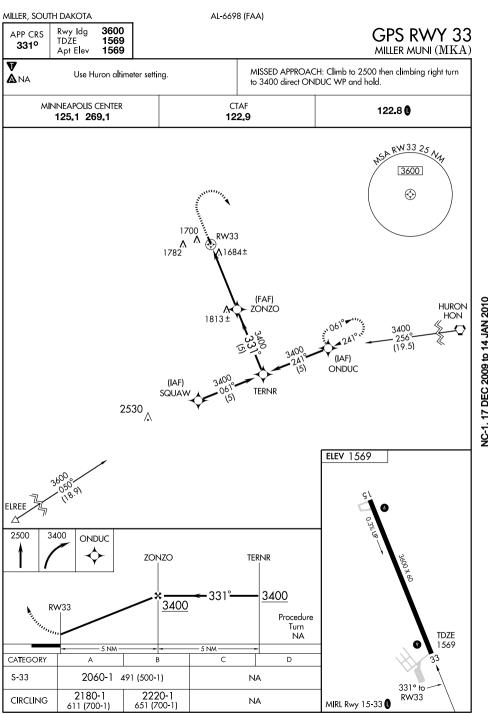


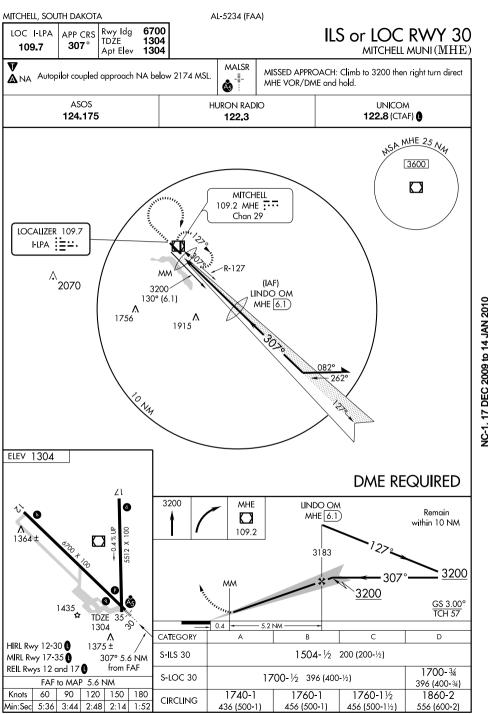


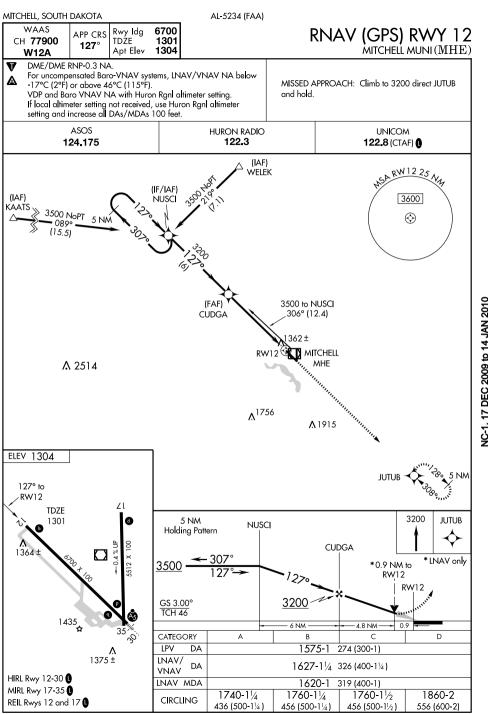


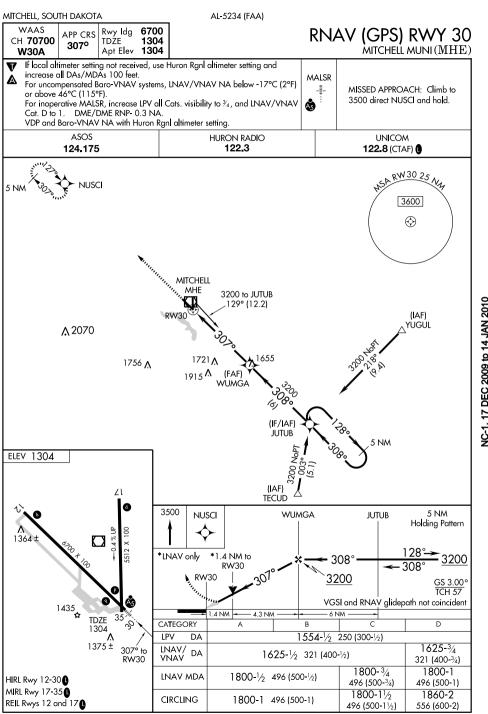


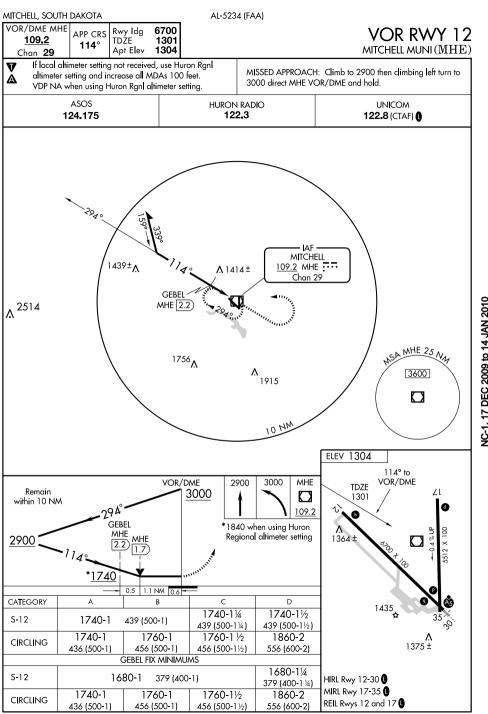


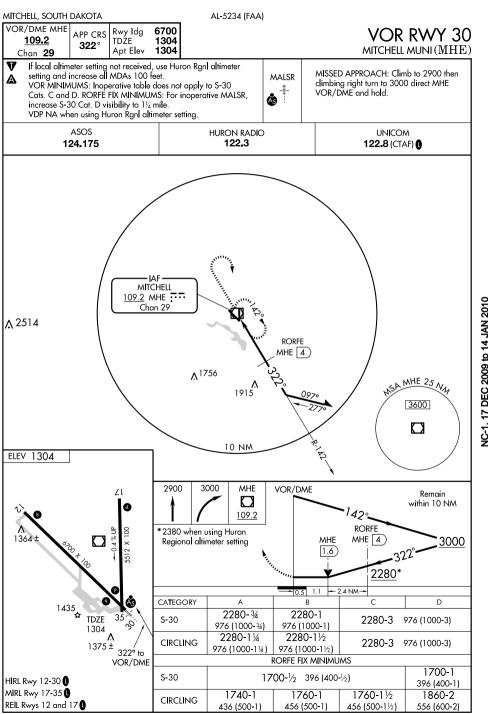


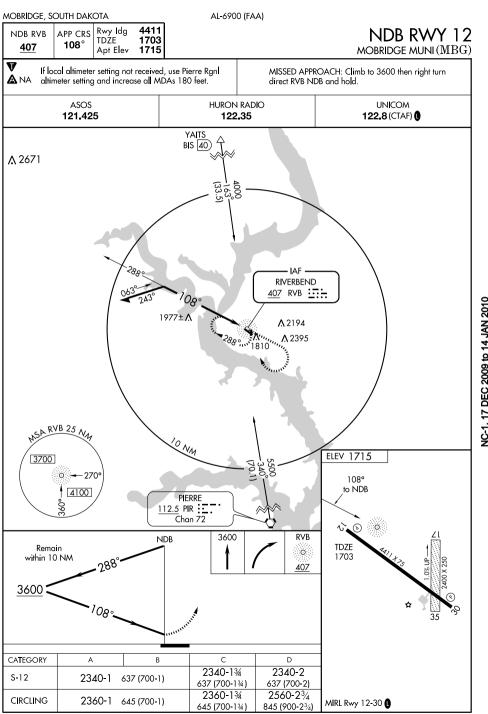


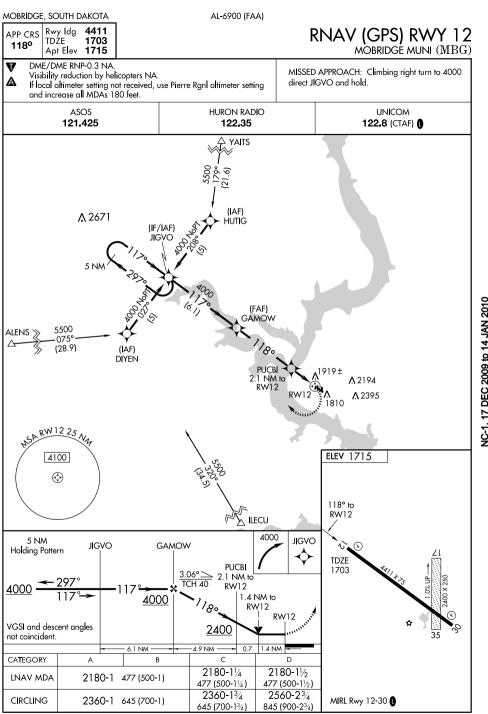


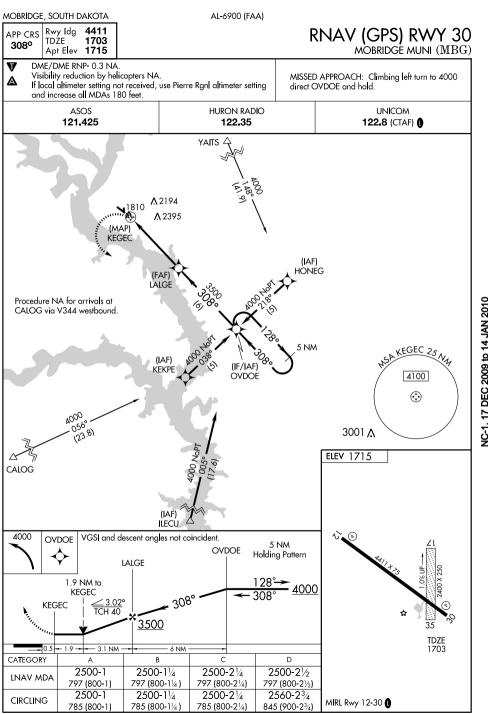


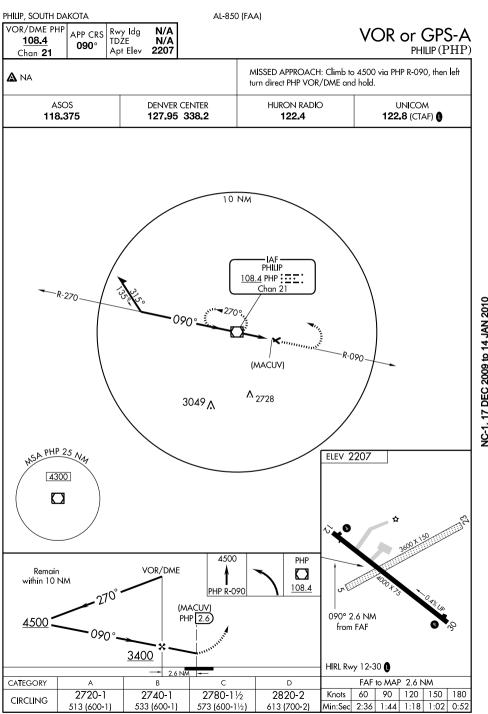


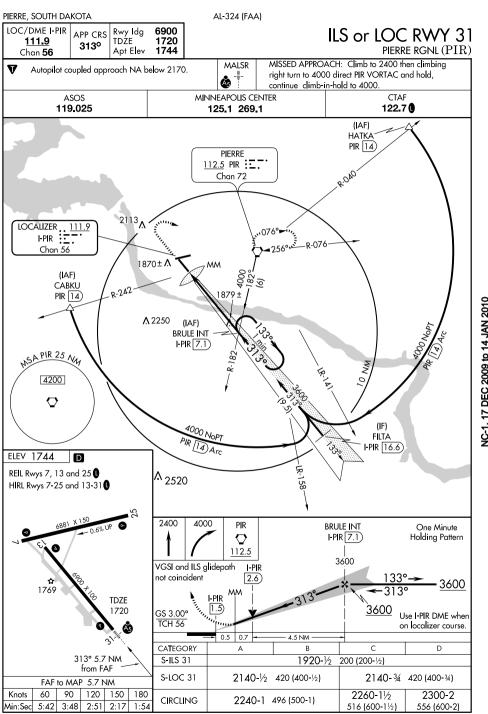


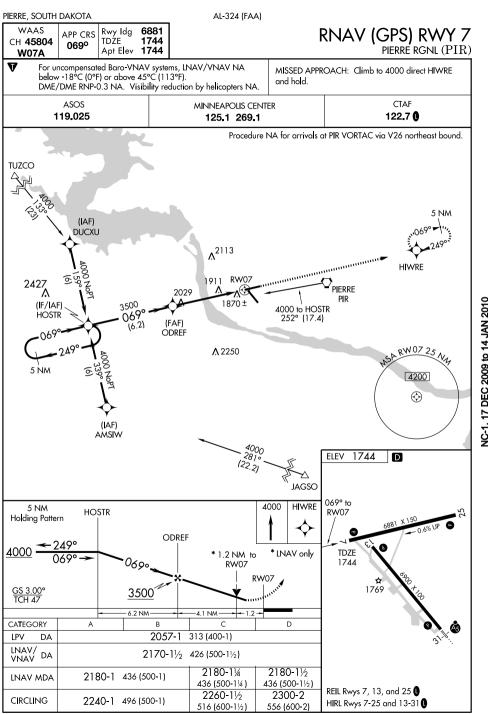


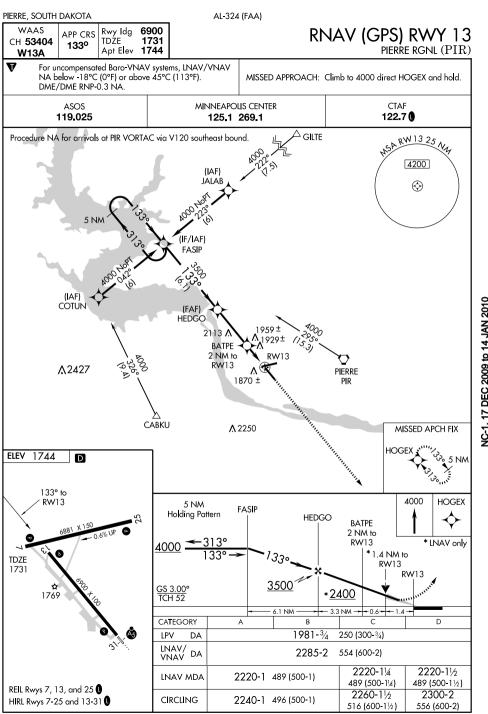


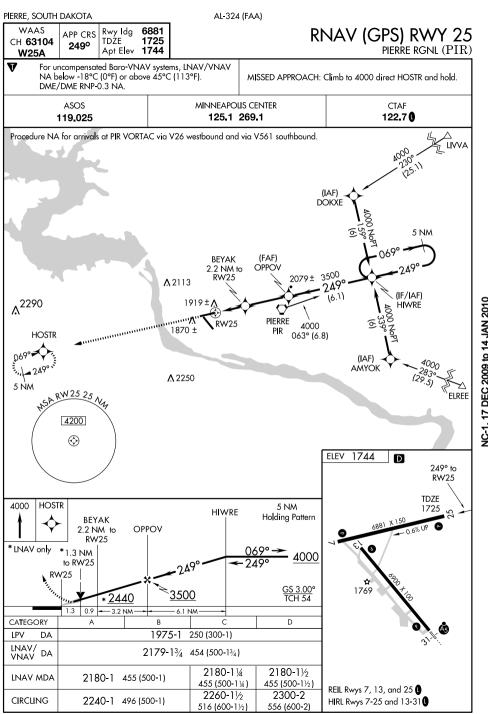


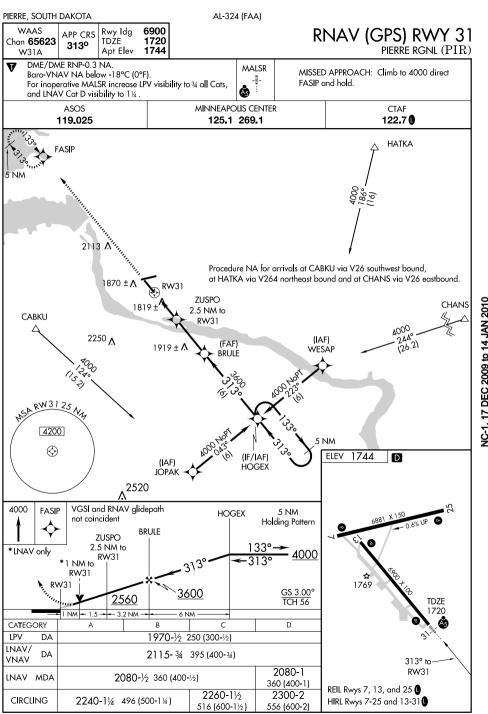


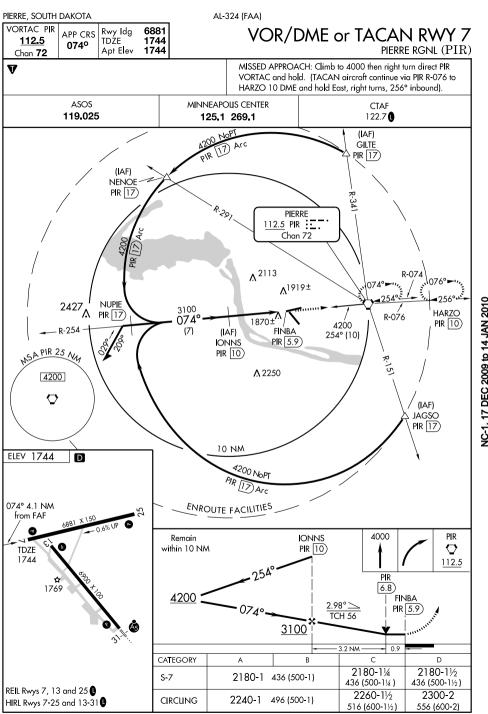


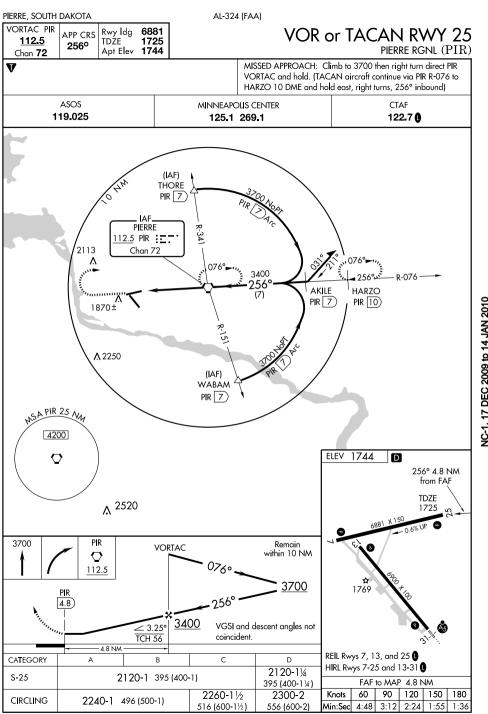


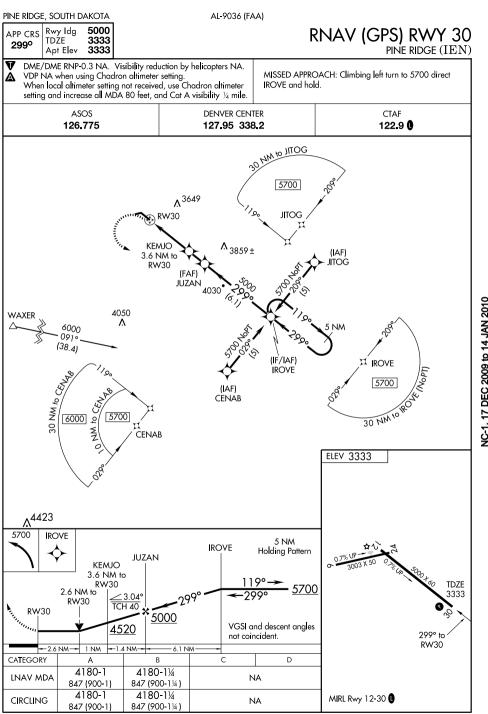


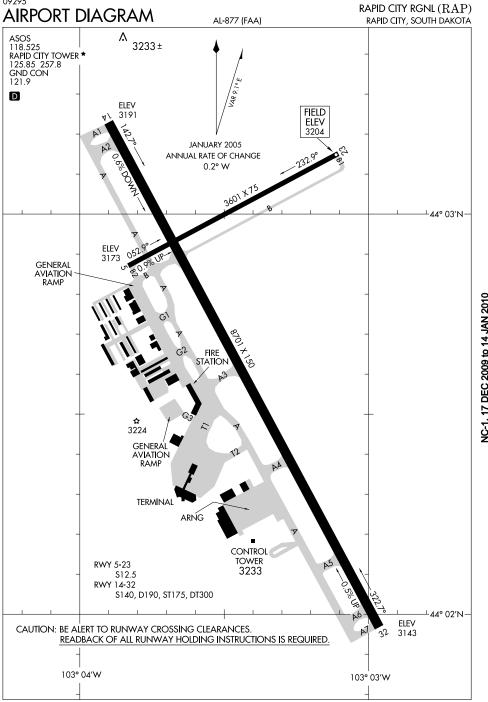


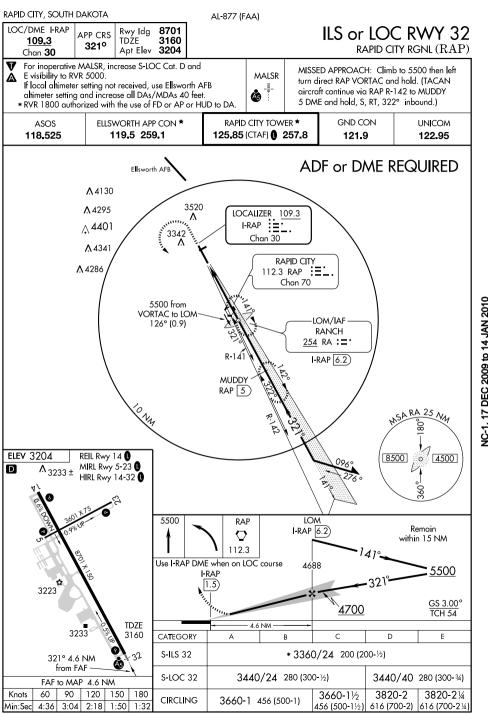


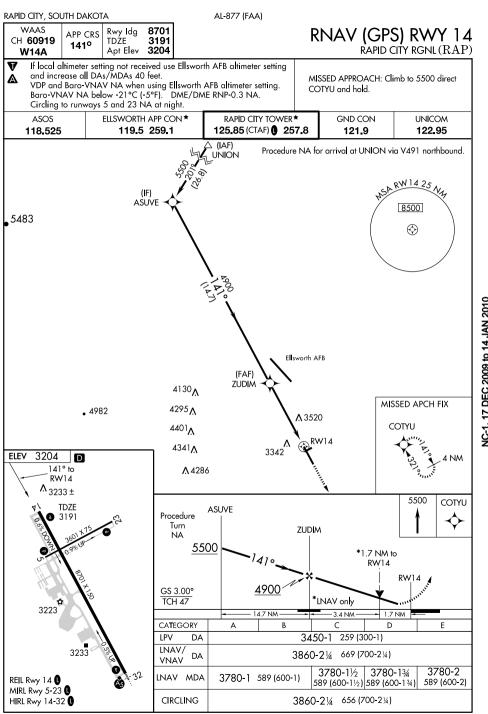


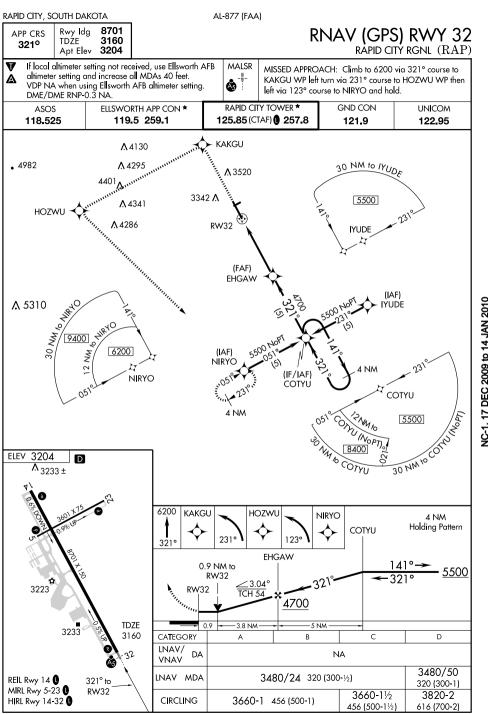


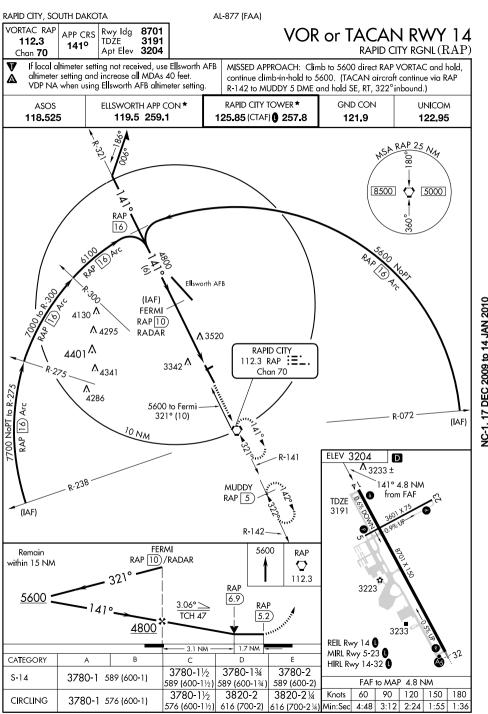


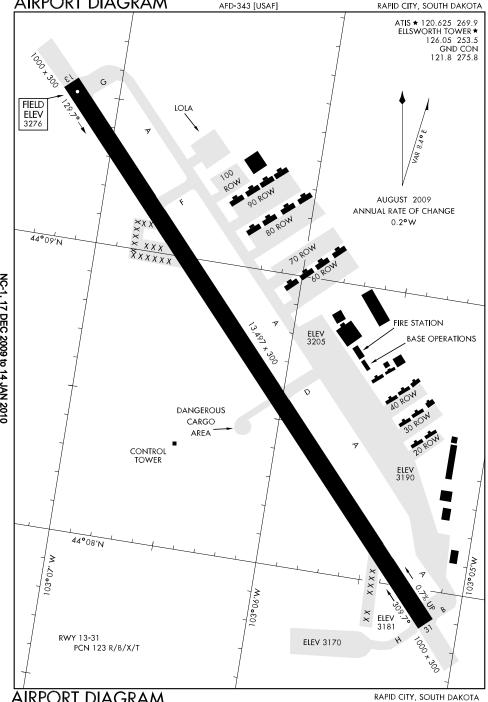


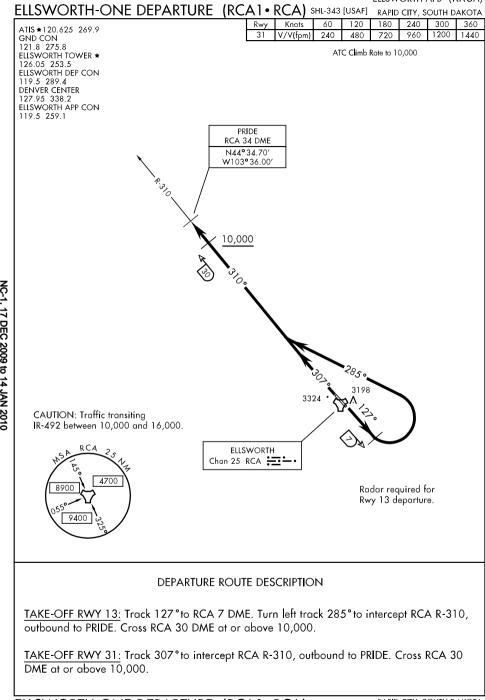




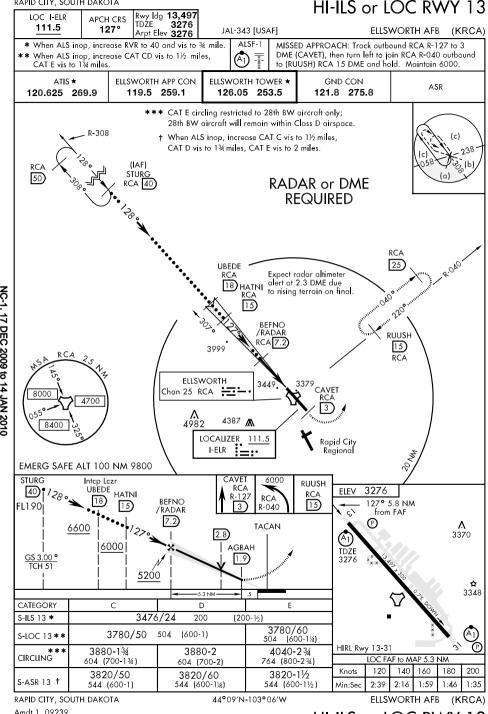


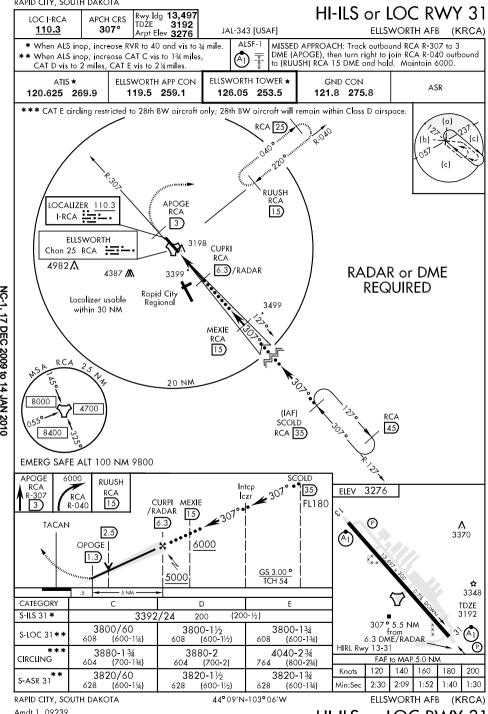


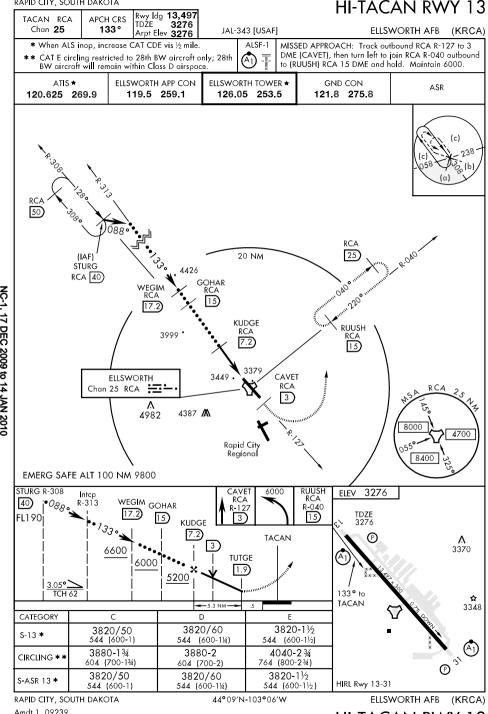


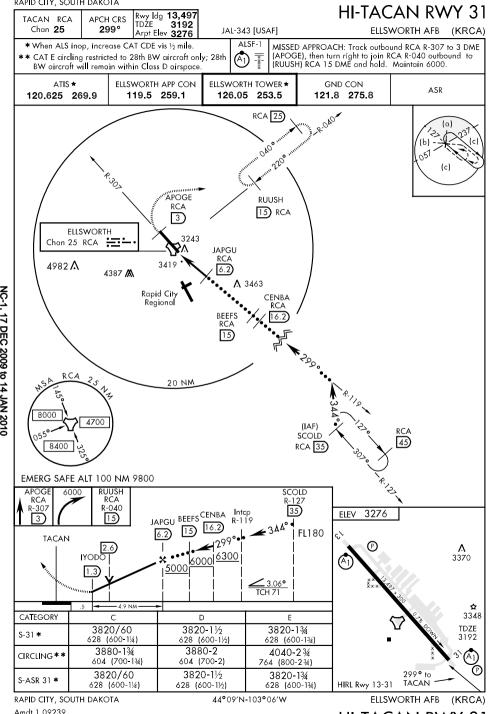


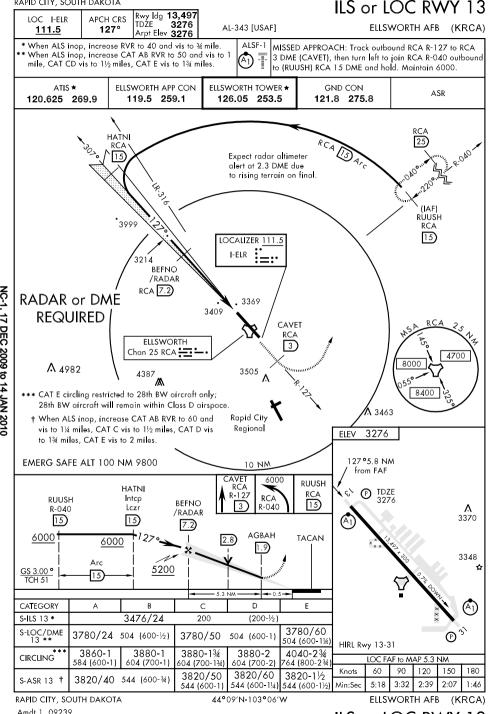
ELLSWORTH-ONE DEPARTURE (RCA1 • RCA)

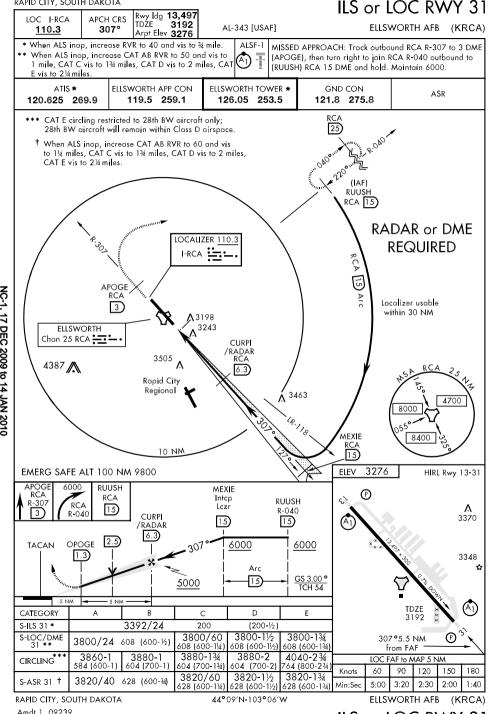


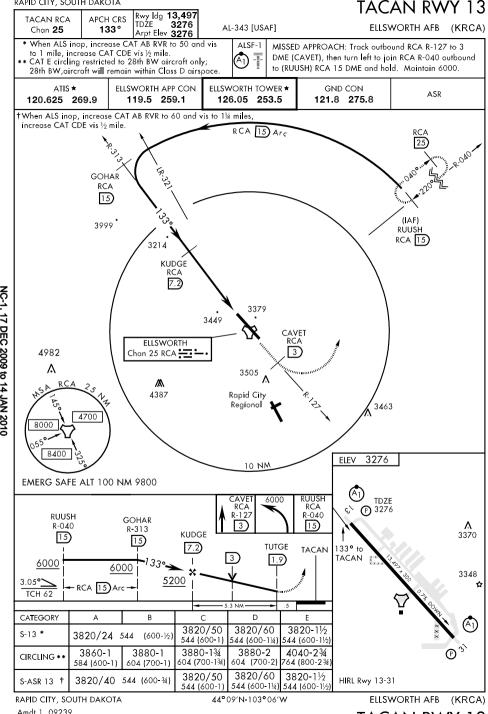


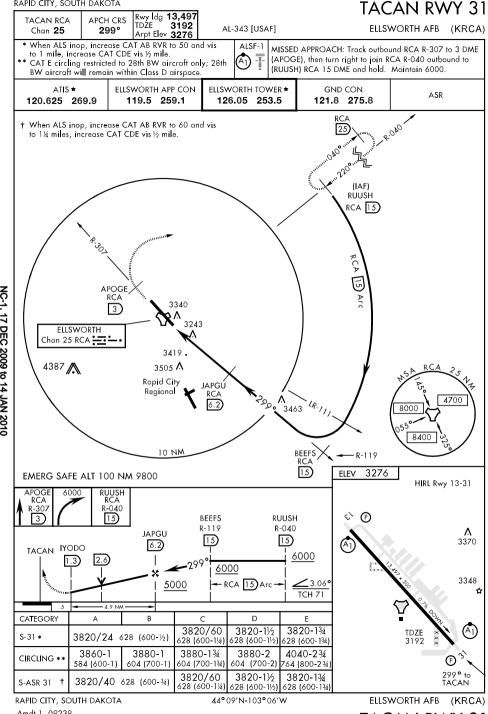


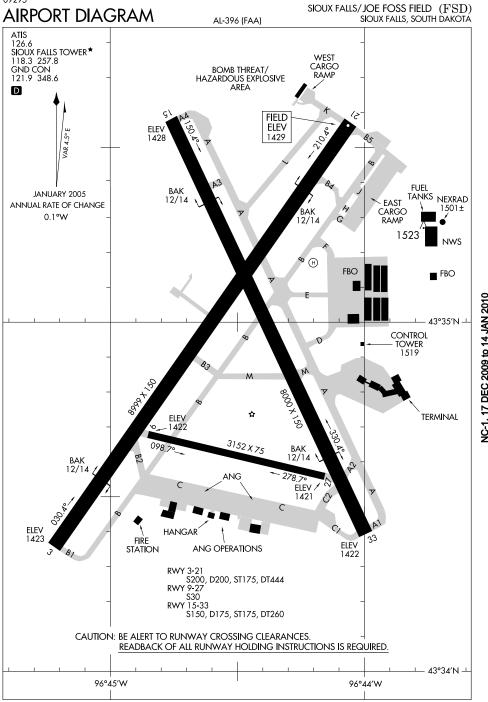


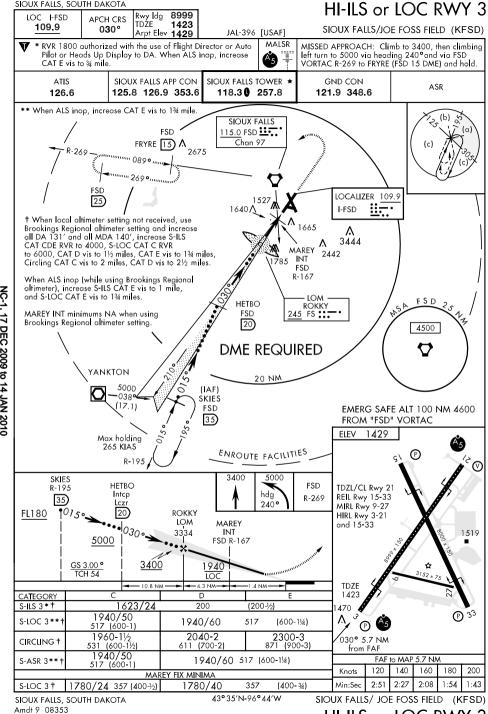


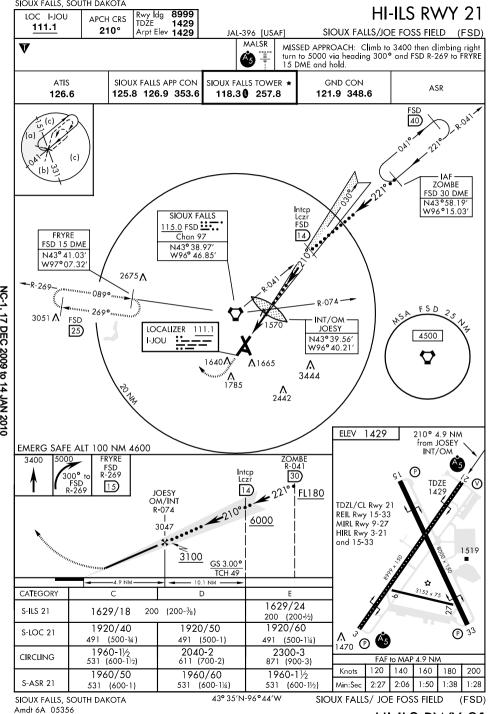


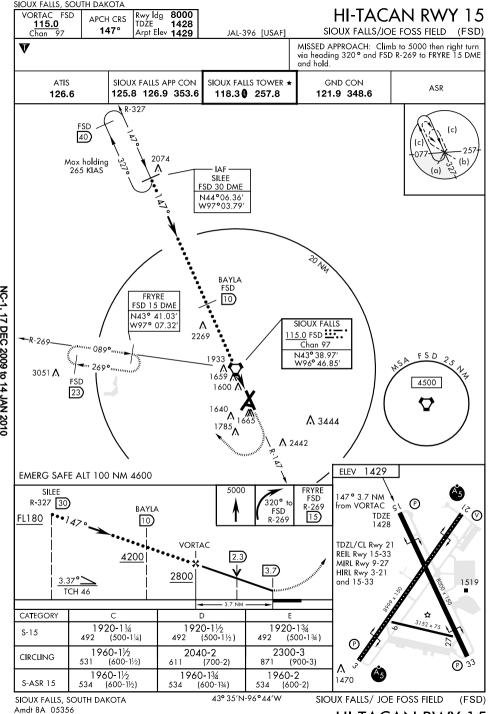


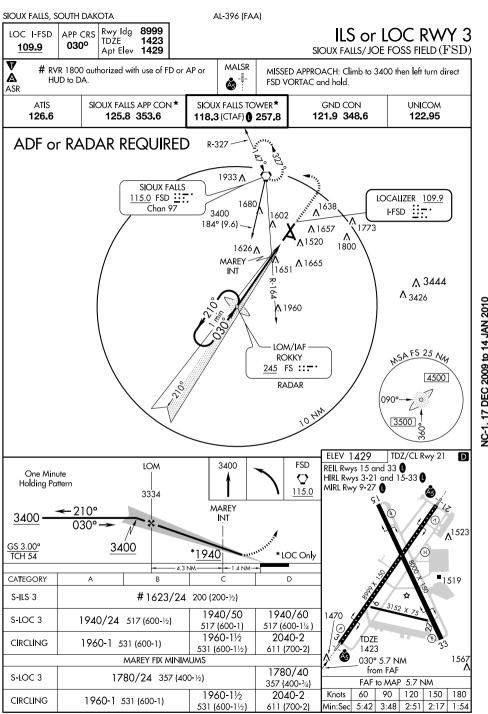


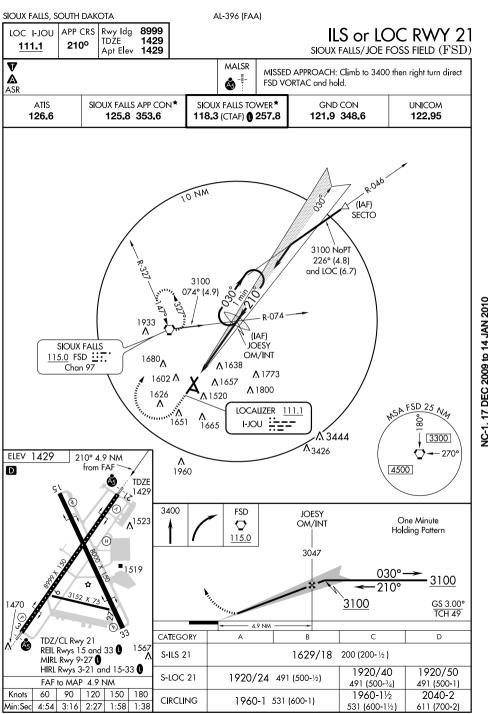


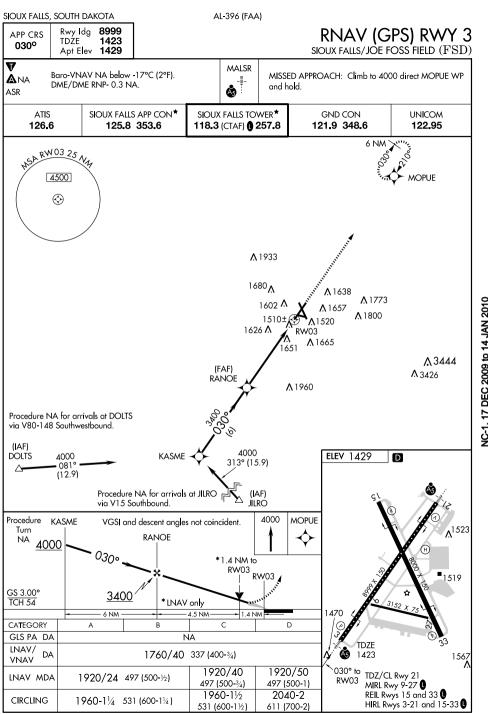


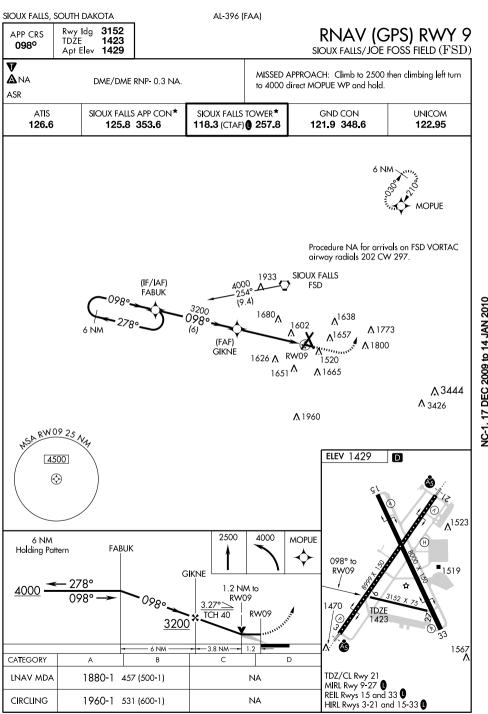


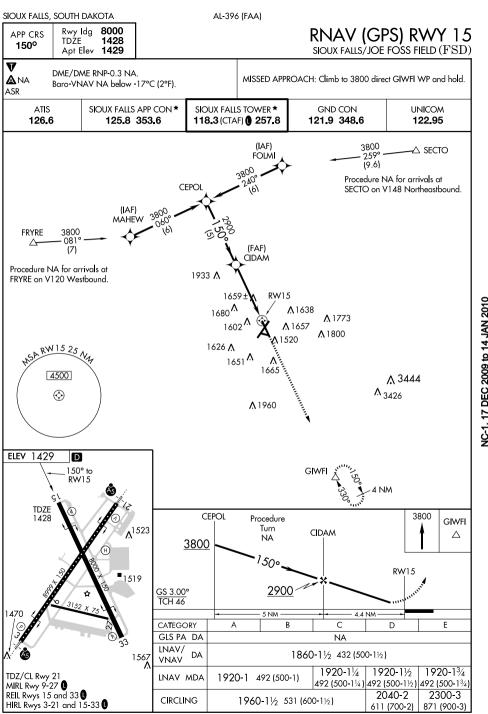


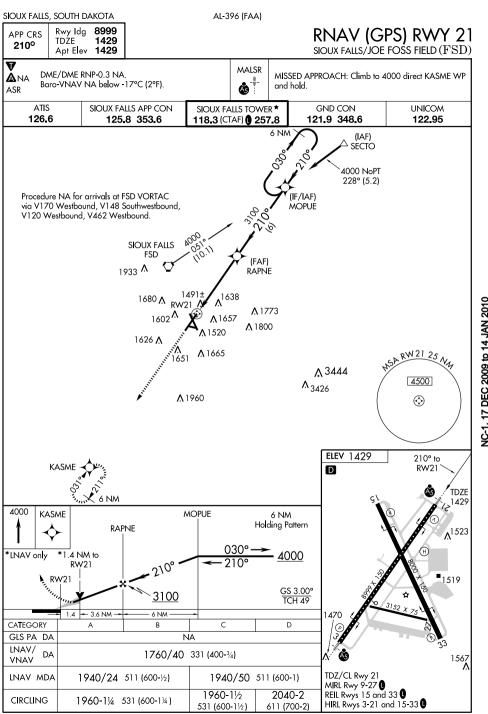


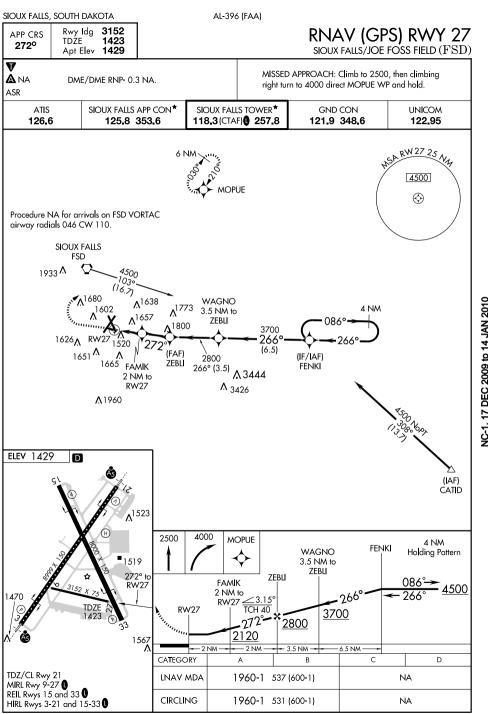




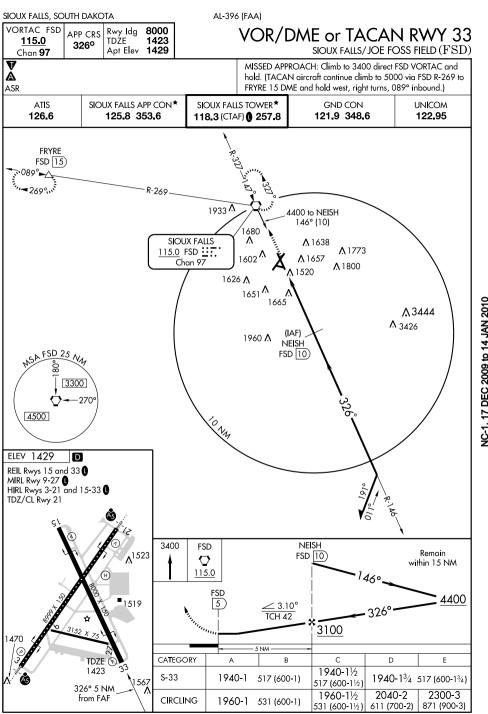


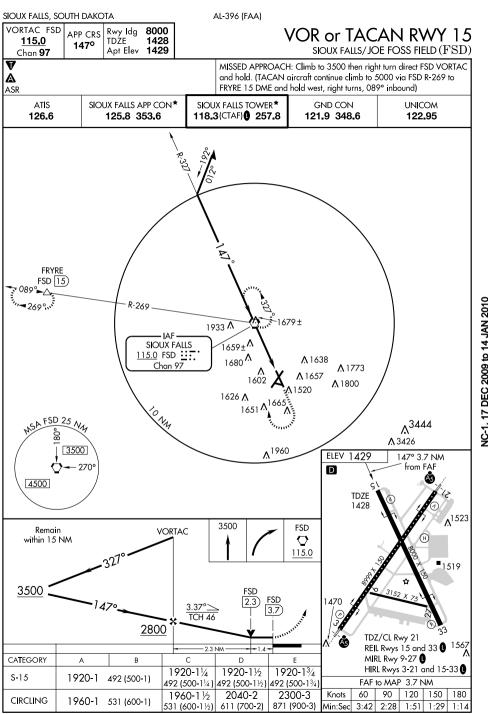


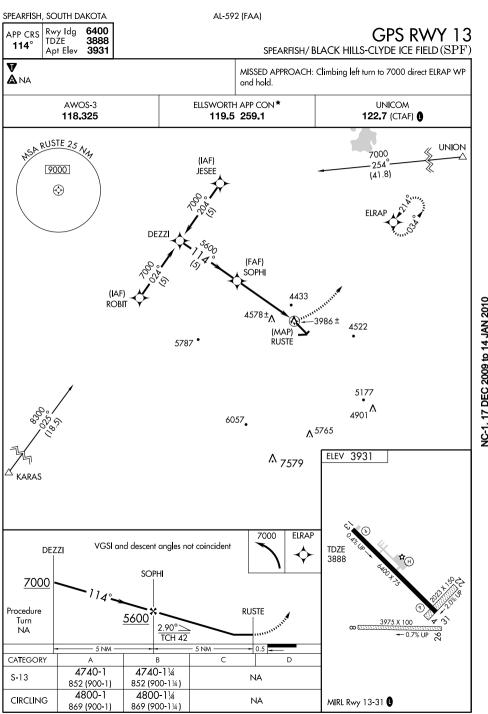


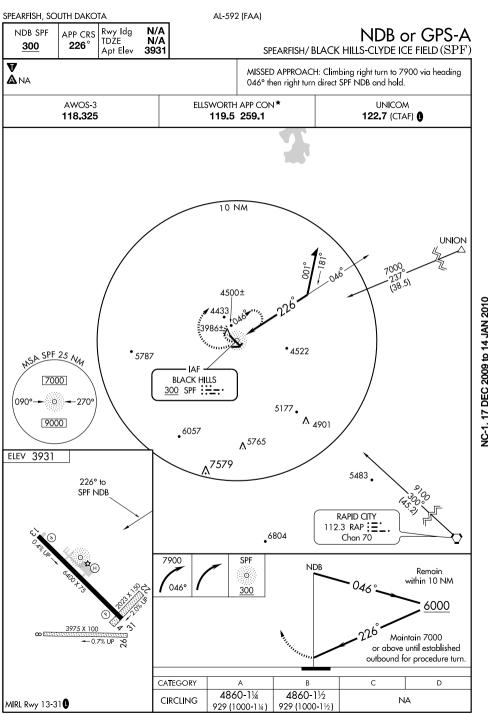


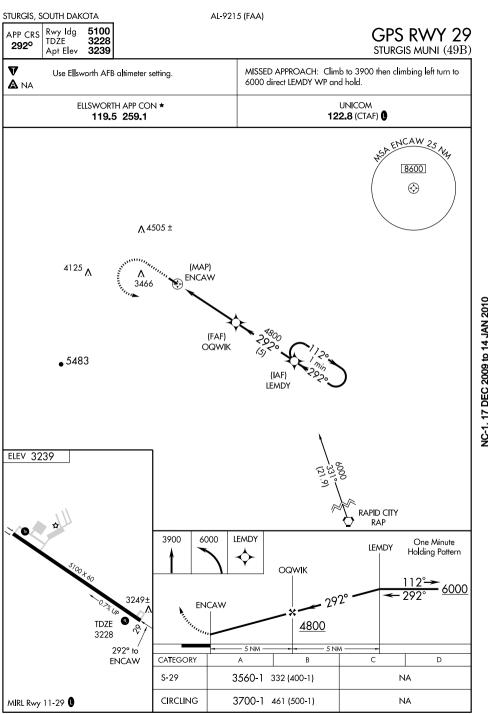
SIOUX FALLS, SOUTH DAKOTA			AL-396 (FAA)					
no II	Rwy Idg 8000 TDZE 1423 Apt Elev 1429		R		RNAV SIOUX FALLS	NAV (GPS) RWY 33 IOUX FALLS/JOE FOSS FIELD (FSD)		
	'DME RNP-0.3 NA VNAV NA below -			MISSED APPR	OACH: Climb to 380	00 direct CEPOL WP	' and hold.	
ATIS SIOUX FALLS 126.6 125.8		S APP CON* 353.6	N [★] SIOUX FALLS TOWER [★] 118.3 (CTAF) 0 257.8		GND CON 121.9 348.6			
4500 ⊕	25 Nyy	1651 dure NA for arr	1520 A A 1665 A 1960	∧ 1773	Λ 3444 Λ ₃₄₂₆	(1,3)	uthbound.	
CEPOL RW3 RW3 GORY DA MDA	CANT	YUCNU B 1920-134	330° 3100 6 NM 497 (500-1 ³ / ₄) 1920-11/ ₂	G T	Docedure Turn NA S 3.00° CH 42 1470	9 3152 x z 5 1		
LING		-1 ³ ⁄ ₄ 531 (60	497 (500-1) 00-1 ³ / ₄)	497 (50 204 611 (7	0-1½) MIRL Rwy 9 0-2 REIL Rwys	5-27 0 15 and 33 0 3-21 and 15-33 0		

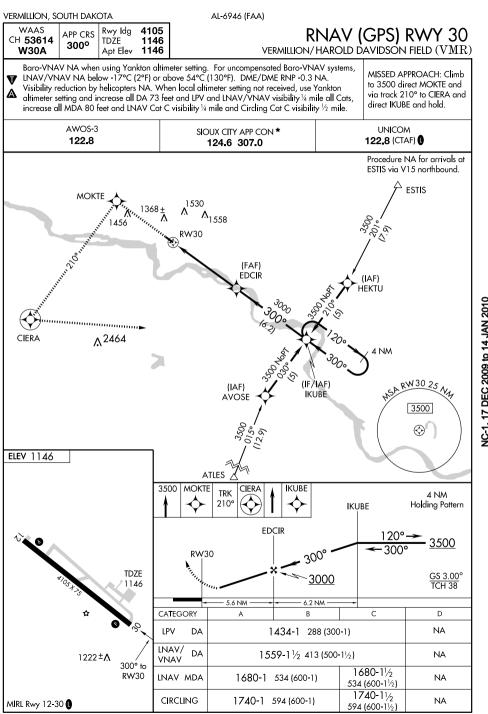


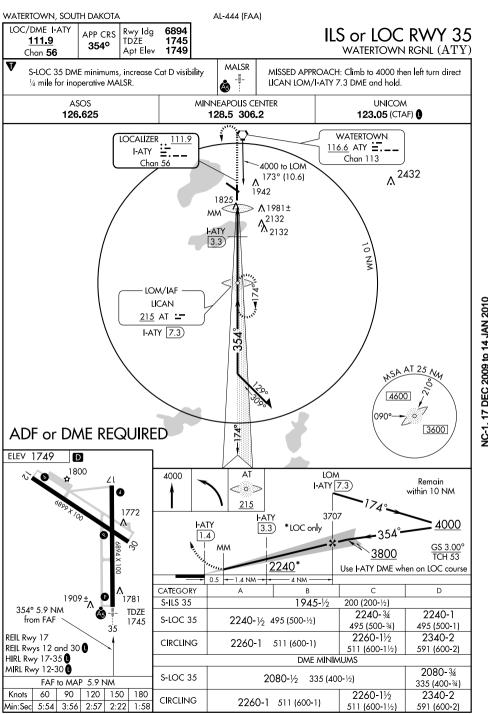


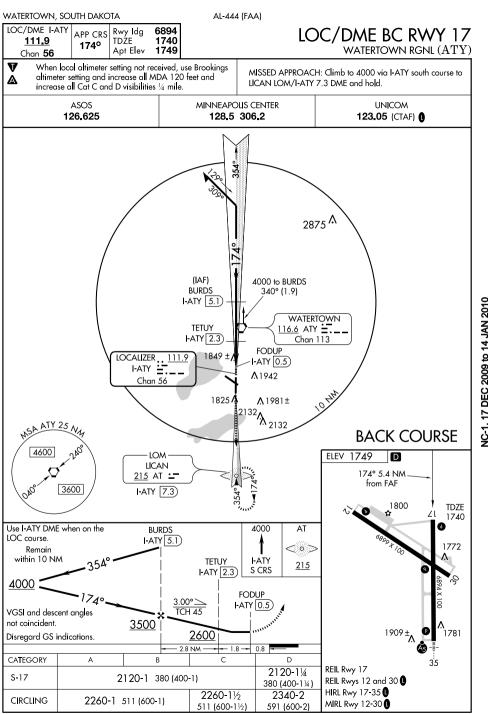


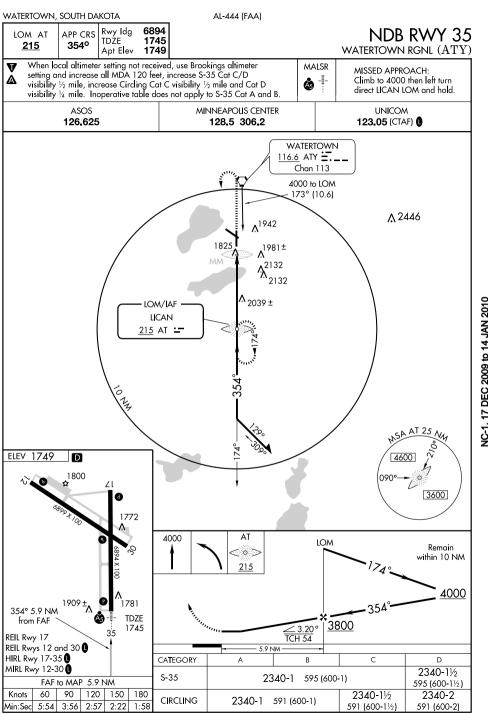


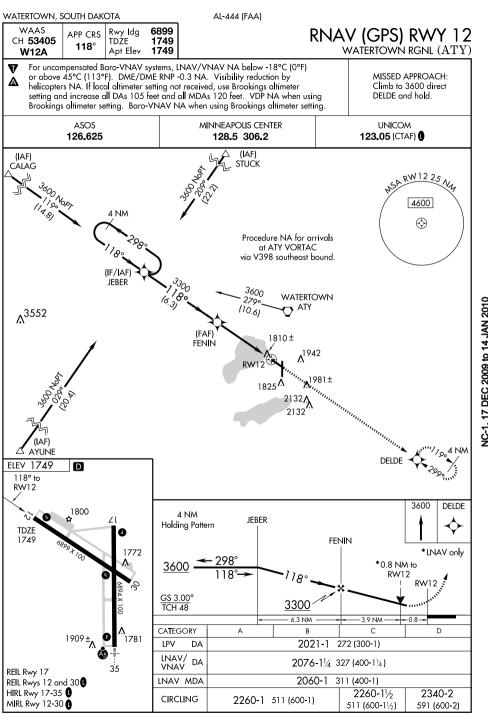


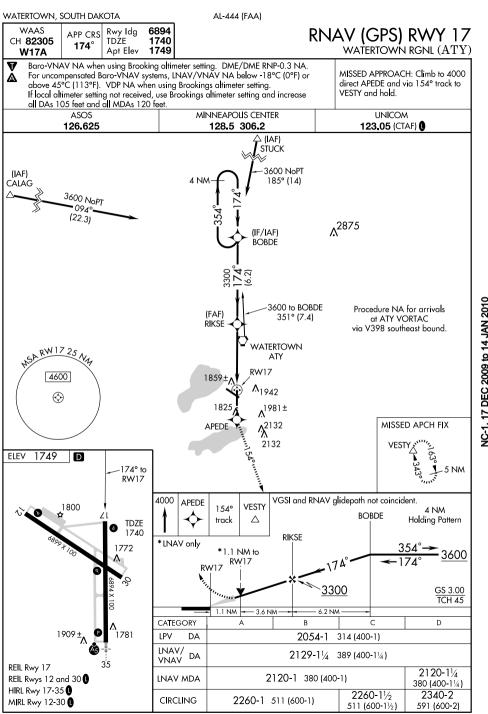




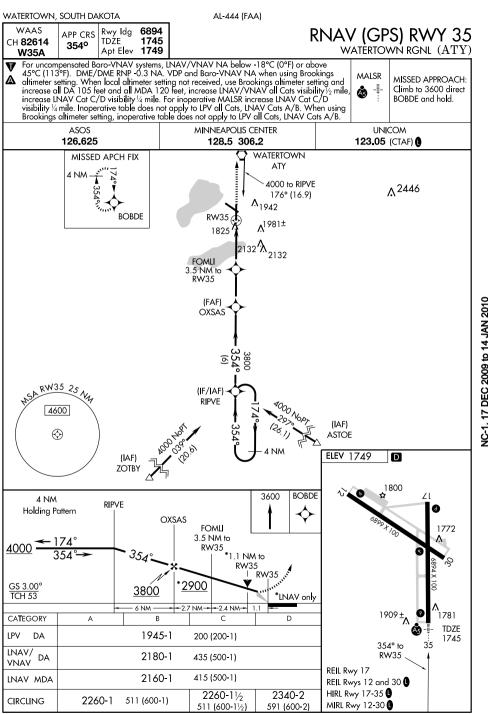


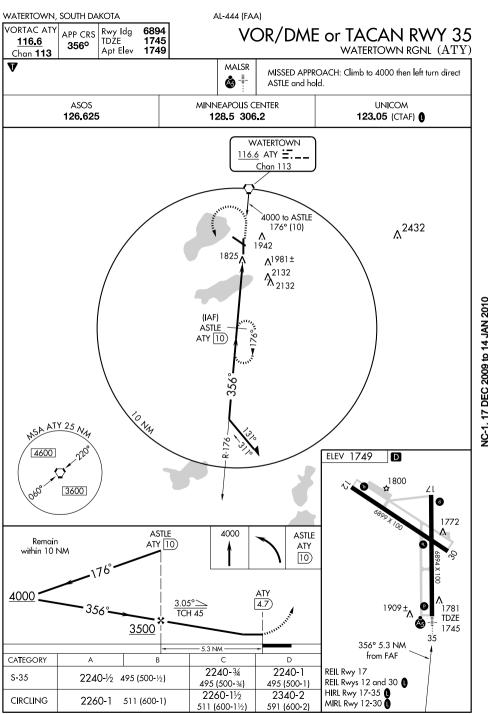


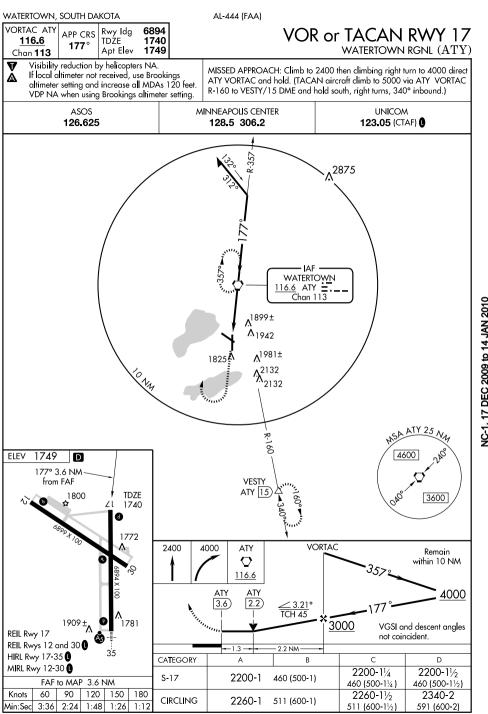




WATERTOWN, SOUTH DAKOTA AL-444 (FAA) WAAS Rwy Idg 6899 RNAV (GPS) RWY 30 APP CRS CH 50305 TDŹE 1736 299° WATERTOWN RGNL (ATY) W30A Apt Elev 1749 For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -18°C (0°F) or above 45°C (113°F). DME/DME RNP-0.3 NA. When local altimeter setting not received, MISSED APPROACH: use Brookings altimeter setting and increase all DA 105 feet and all MDA 120 feet. Climb to 3600 direct increase LPV and LNAV/VNAV all Cats. visibility ¼ mile, LNAV and Circling Cat. B IEBER and hold visibility ¼ mile, Cat. C/D visibility ½ mile. VDP NA when using Brookings altimeter setting. Baro-VNAV NA when using Brookings altimeter setting. MINNEAPOLIS CENTER ASOS UNICOM 126.625 128.5 306.2 123,05 (CTAF) (4 NM Procedure NA for arrivals at ATY VORTAC via V78 westbound. JEBER WATERTOWN ATY ۸²⁴⁴⁶ NC-1, 17 DEC 2009 to 14 JAN 2010 1825 ۸₂₁₀₇ 1916 1981 (IAF) NSA RW 30 25 Ny BÙCCA 2132 (FAF) 3600 NoPT HAVÓI 255° 4600 (14.6) (IF/IAF) **(** 4 NM DELDE 1749 **ELEV** D 3600 **JEBER** VGSI and RNAV glidepath 4 NM 1800 not coincident. Holding Pattern DFIDE Ζl HAVDI *LNAV only *1.9 NM to RW30 TDZE 1736 **RW30** GS 3.00° 3500 TCH 45 3.5 NM 6.2 NM 299° to RW30 CATEGORY D Α 1990-1 LPV DA 254 (300-1) 1781 LNAV/ DΑ 2208-13/4 472 (500-13/4) VNAV REIL Rwy 17 2360-13/4 2360-2 LNAV MDA 2360-1 624 (700-1) REIL Rwys 12 and 30 1 624 (700-13/4) 624 (700-2) HIRL Rwy 17-35 **()** 2360-13/4 2360-2 CIRCLING 2360-1 611 (700-1) MIRL Rwy 12-30 0 611 (700-134) 611 (700-2)

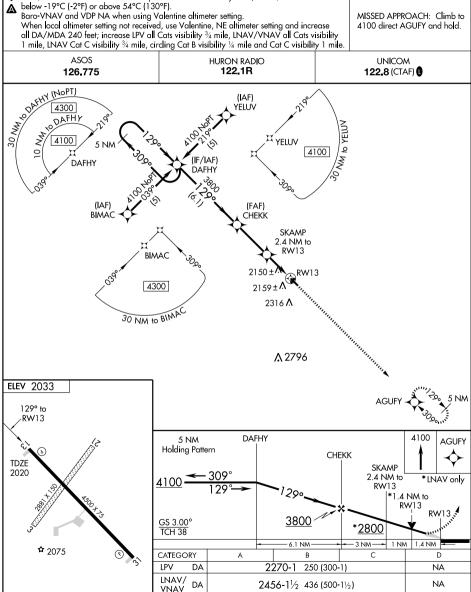






W13A DME/DME RNP-0.3 NA. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -19°C (-2°F) or above 54°C (130°F). Baro-VNAV and VDP NA when using Valentine altimeter setting. When local altimeter setting not received, use Valentine, NE altimeter setting and increase

WAAS



LNAV MDA

CIRCLING

MIRL Rwy 13-31

2480-1

460 (500-1)

2580-1 547 (600-1)

NC-1 17 DEC 2009 to 14 JAN 2010

2480-11/4

460 (500-11/4) 2680-13/4

647 (700-134)

NA

NA

WAAS

CH **97612**

RNAV (GPS) RWY 31 WINNER RGNL (ICR.)

Apt Elev 2033 W31A DME/DME RNP-0.3 NA. A When local altimeter setting not received, use Valentine, NE altimeter setting and increase

all DA/MDA 240 feet; increase LPV all Cats visibility 3/4 mile, LNAV/VNAV all Cats visibility 1 mile, LNAV Cat C visibility $\frac{1}{2}$ mile, circling Cat B visibility $\frac{1}{4}$ mile and Cat C visibility 1 mile. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -19°C (-2°F) or above

MISSED APPROACH: Climb to 4100 direct DAFHY and hold.

